

FIȘA DE AUTOEVALUARE

Iustinian Gabriel BEJAN

(alcătuită în conformitate cu prevederile fișei de evaluare generală a standardelor
Universității "ALEXANDRU IOAN CUZA" din Iași, din *Anexa I*)

	DESCRIPTORI	PUNCTAJ OBTINUT
	1. Articole științifice publicate <i>in extenso</i> în reviste cotate <i>Web of Science</i> cu factor de impact.	1457,59
	2. Articole științifice publicate <i>in extenso</i> în reviste indexate <i>Web of Science</i> fără factor de impact.	3,33
	3. Articole științifice publicate <i>in extenso</i> în reviste indexate BDI.	8,0
	4. Articole științifice publicate <i>in extenso</i> în volumele conferințelor.	60,83
	5. Cărți științifice publicate (doar prima ediție).	-
	6. Cărți științifice traduse și publicate în edituri din străinătate.	-
	7. Coordonarea și editarea de volume, traduceri și antologii.	-
	8. Articole publicate în dicționare și enciclopedii.	-
	9. Contracte de cercetare științifică în instituții academice (universități, institute ale Academiei Române, institute naționale de cercetare, institute de cercetare din străinătate, alte categorii de institute academice).	330,47
	10. Contracte de cercetare în mediul de afaceri și sectorul public.	-
	11. Brevete.	-
	12. Citări și recenzii ale lucrărilor științifice.	5623,72
	13. Lucrări susținute în calitate de invitat la manifestări științifice (conferințe, congrese, simpozioane, seminarii și ateliere de lucru).	135,00
	14. Profesor/cercetător invitat la universități/institute de cercetare.	50,00
	15. Editor/Membru în <i>Editorial Board & Advisory Board</i> .	-
	16. Premii Internaționale obținute printr-un proces de selecție.	-
	17. Premii ale Academiei Române.	-
	18. Alte premii naționale ale instituțiilor culturale.	-
	19. Participări la manifestări științifice.	906,00
	TOTAL CERCETARE	8574,87

FIȘA DE AUTOEVALUARE

Iustinian Gabriel BEJAN

(alcătuită în conformitate cu prevederile fișei de evaluare generală a standardelor
Universității "ALEXANDRU IOAN CUZA" din Iași, din *Anexa I*)

ACTIVITATEA DE CERCETARE

I.1. Articole științifice publicate în extenso în reviste cotate Web of Science cu factor de impact/[(60 puncte x factor de impact+25)/număr autori]

TOTAL = 1457,52 puncte

1. Bejan, I., M. Duncianu, R. Olariu, I. Barnes, P. W. Seakins, P. Wiesen, Kinetic study of the gas-phase reactions of chlorine atoms with 2-chlorophenol, 2-nitrophenol, and four methyl-2-nitrophenol isomers, 119 (20), 4735–4745, 2015. **ISI 2.775**
2. Winiberg F.A.F., S.C. Smith, I. Bejan, C.A. Brumby, T. Ingham, T.L. Malkin, S.C. Orr, D.E. Heard, P.W. Seakins, Pressure-dependent calibration of the OH and HO₂ channels of a FAGE HO_x instrument using the Highly Instrumented Reactor for Atmospheric Chemistry (HIRAC), Atmospheric Measurement Techniques, 8, 2, 523-540, 2015. **ISI 3.206**
3. Gibilisco, R.G., I. Bejan, I. Barnes, P. Wiesen, M.A. Teruel, M. A., FTIR gas kinetic study of the reactions of ozone with a series of hexenols at atmospheric pressure and 298 K, Chemical Physics Letters, 618, 114-118, 2015. **ISI 1.991**
4. Gibilisco, R.G., I. Bejan, I. Barnes, P. Wiesen, M.A. Teruel, M. A., Rate coefficients at 298 K and 1 atm for the tropospheric degradation of a series of C-6, C-7 and C-8 biogenic unsaturated alcohols initiated by Cl atoms, Atmospheric Environment 94, 564-572, 2014. **ISI 3.062**
5. Lauraguais, A., I. Bejan, I. Barnes, P. Wiesen, C. Coeur-Tourneur, A. Cassez, Rate Coefficients for the Gas-Phase Reaction of Chlorine Atoms with a Series of Methoxylated Aromatic Compounds, Journal of Physical Chemistry A, 118(10), 1777-1784, 2014. **ISI 2.775**
6. Derpmann, V., D. Mueller, I. Bejan, H. Sonderfeld, S. Wilberscheid, R. Koppmann, K.J. Brockmann, T. Benter, Capillary Atmospheric Pressure Electron Capture Ionization (cAPECI): A Highly Efficient Ionization Method for Nitroaromatic Compounds, Journal of the American Society for Mass Spectrometry, 25(3), 329-342, 2014. **ISI 3.193**
7. Blanco, M.B., I. Bejan, I. Barnes, P. Wiesen, M.A. Teruel, Products and Mechanism of the Reactions of OH Radicals and Cl Atoms with Methyl Methacrylate (CH₂=C(CH₃)C(O)OCH₃) in the Presence of NO_x, Environmental Science and Technology, 48(3), 1692-1699, 2014. **ISI 5.481**
8. Olariu R.I., I. Barnes, I. Bejan, C. Arsene, D. Vione, B. Klotz, K.H. Becker, FT-IR product study of the reactions of NO₃ radicals with ortho -, meta -, and para-cresol, Environmental Science and Technology, 47(14), 7729-7738, 2013. **ISI 5.481**
9. Peters, S., I. Bejan, R. Kurtenbach, S. Liedtke, G. Villena, P. Wiesen, J. Kleffmann, Development of a new LOPAP instrument for the detection of O-3 in the atmosphere, Atmospheric Environment 67, 112-119, 2013. **ISI 3.062**
10. Nakashima, Y., Tsurumaru H., Imamura T., Bejan I., Wenger J.C., Kajii Y., Total OH reactivity measurements in laboratory studies of the photooxidation of isoprene, Atmospheric Environment 62, 243-247, 2012. **ISI 3.062**
11. Blanco, M.B., Bejan I., Barnes I., Wiesen P., Teruel M.A., Atmospheric Oxidation of Vinyl and Allyl Acetate: Product Distribution and Mechanisms of the OH-Initiated Degradation in the Presence and Absence of NO_x, Environmental Science and Technology, 46(16), 8817-8825, 2012. **ISI 5.481**
12. Ceacero-Vega A.A., Ballesteros B., Bejan I., Barnes I., Jimenez E., Albaladejo J., Kinetics and Mechanisms of the Tropospheric Reactions of Menthol, Borneol, Fenchol, Camphor, and Fenchone with Hydroxyl Radicals (OH) and Chlorine Atoms (Cl), Journal of Physical Chemistry A, 116(16), 4097-4107, 2012. **ISI 2.775**
13. Bejan I., Schurmann A., Barnes I., Benter T., Kinetics of the gas-phase reactions of OH radicals with a series of trimethylphenols, International Journal of Chemical Kinetics, 44(2), 117-124, 2012. **ISI 1.566**
14. Villena G., Bejan I., Kurtenbach R., Wiesen P., Kleffmann J., Interferences of commercial NO₂ instruments in the urban atmosphere and in a smog chamber, Atmospheric Measurement Techniques, 5(1), 149-159, 2012. **ISI 3.206**

15. Kourtchev I., Bejan I., Sodeau J.R., Wenger J.C., Gas phase reaction of OH radicals with (E)-beta-farnesene at 296 +/- 2 K: Rate coefficient and carbonyl products, *Atmospheric Environment* 46, 338-345, 2012. **ISI 3.062**
16. Ceacero-Vega A.A., Ballesteros B., Bejan I., Barnes I., Albaladejo J., Daytime Reactions of 1,8-Cineole in the Troposphere, *Chemphyschem*, 12(11) 2145-2154, 2011. **ISI 3.360**
17. Villena G., Bejan I., Kurtenbach R., Wiesen P., Kleffmann J., Development of a new Long Path Absorption Photometer (LOPAP) instrument for the sensitive detection of NO₂ in the atmosphere, *Atmospheric Measurement Techniques*, 4(8), 1663-1676, 2011. **ISI 3.206**
18. Schütze, N., X. Zhong, S. Kirschbaum, I. Bejan, I. Barnes, T. Benter, Relative kinetic measurements of rate coefficients for the gas-phase reactions of Cl atoms and OH radicals with a series of methyl alkyl esters, *Atmospheric Environment*, 44 (40), 5407-5414, 2010. **ISI 3.062**
19. Blanco M., I. Bejan, I. Barnes, P. Wiesen, M. Teruel, FTIR Product Distribution Study of the Cl and OH Initiated Degradation of Methyl Acrylate under Atmospheric Pressure, *Environmental Science & Technology*, 44 (18) 7031-7037, 2010. **ISI 5.481**
20. Blanco M., I. Bejan, I. Barnes, P. Wiesen, M. Teruel, Atmospheric Photooxidation of Fluoroacetates as a Source of Fluorocarboxylic Acids, *Environmental Science & Technology*, 44, 2354-2359, 2010. **ISI 5.481**
21. Ceacero-Vega A.A., B. Ballesteros, J. Albaladejo, I. Bejan, I. Barnes, Temperature dependence of the gas-phase reactions of Cl atoms with propene and 1-butene between 285 < T < 313 K, *Chemical Physics Letters*, 484, 1-3, 10-13, 2009. **ISI 1.991**
22. Blanco, M., I. Bejan, I. Barnes, P. Wiesen, M.A. Teruel, Temperature-dependent rate coefficients for the reactions of Cl atoms with methyl methacrylate, methyl acrylate and butyl methacrylate at atmospheric pressure, *Atmospheric Environment*, 43, 38, 5996-6002, 2009. **ISI 3.062**
23. Blanco, M., I. Bejan, I. Barnes, P. Wiesen, M.A. Teruel, The Cl-initiated oxidation of CH₃C(O)OCH=CH₂, CH₃C(O)OCH₂CH=CH₂, and CH₂=CHC(O)O(CH₂)₃CH₃ in the troposphere, *Environmental Science and Pollution Research*, 16, 6, 641-648, 2009. **ISI 2.757**
24. Villanueva F., B. Cabañas, E. Monedero, S. Salgado, I. Bejan, P. Martin, Degradation of Alkylfurans with Chlorine Atoms: Product and Mechanistic Study, *Atmospheric Environment*, 43(17), 2804-2813, 2009. **ISI 3.062**
25. Kourtchev I., I. Bejan, J.R. Sodeau, J.C. Wenger, Gas phase reaction of (E)-β-farnesene with ozone: Rate coefficient and carbonyl products, *Atmospheric Environment*, 43(20), 3182-3190, 2009. **ISI 3.062**
26. Blanco, M., I. Bejan, I. Barnes, P. Wiesen and M.A. Teruel, OH-Initiated Degradation of Unsaturated Esters in the Atmosphere: Kinetics in the Temperature Range 287-313K, *Journal of Physical Chemistry*, 113, 20, 5958-5965, 2009. **ISI 2.775**
27. Zhou S., I. Barnes, T. Zhu, I. Bejan, M. Albu, Th. Benter, Atmospheric Chemistry of Acetylacetone, *Environmental Science & Technology*, 42(21), 7905–7910, 2008. **ISI 5.481**
28. Blanco M., I. Bejan, I. Barnes, P. Wiesen, M.A. Teruel, Kinetics of the Reactions of Chlorine Atoms with Selected Fluoroacetates under Atmospheric Pressure and 298 K, *Chemical Physics Letters*, 453, 18-23, 2008. **ISI 1.991**
29. Bejan, I., I. Barnes, R. Olariu, Sh. Zhou, P. Wiesen, Th. Benter, Investigations on the gas-phase photolysis and OH radical kinetics of methyl-2-nitrophenols, *Physical Chemistry Chemical Physics*, 9, 5686-5692, 2007. **ISI 4.198**
30. Zhou S., I. Barnes, T. Zhu, B. Klotz, I. Bejan, M. Albu, Th. Benter, Product study of the OH, NO₃, and O₃ initiated atmospheric photooxidation of propyl vinyl ether, *Environmental Science & Technology*, 40, 17, 5415-5421, 2006. **ISI 5.481**
31. Zhou, Sh., I. Barnes, T. Zhu, I. Bejan, T. Benter, Kinetic study of the gas-phase reactions of OH and NO₃ radicals and O₃ with selected vinyl ethers, *Journal of Physical Chemistry A*, 110, 23, 7386 – 7392, 2006. **ISI 2.775**
32. Bejan, I., Y. Abd El Aal, I. Barnes, Th. Benter, B. Bohn, P. Wiesen, J. Kleffmann, The Photolysis of ortho-nitrophenol: a new gas phase source of HONO, *Physical Chemistry Chemical Physics*, 8, 2028-2035, 2006. **ISI 4.198**
33. Spittler, M., I. Barnes, I. Bejan, K.J. Brockmann, Th. Benter, K. Wirtz, Reactions of NO₃ radicals with limonene and alpha-pinene: Product and SOA formation, *Atmospheric Environment*, 40, Supl. 1, 116-127, 2006. **ISI 3.062**
34. Olariu R.I., I. Bejan, I. Barnes, B. Klotz, K.H. Becker, K. Wirtz, Rate coefficients for the gas-phase reaction of NO₃ radicals with selected dihydroxybenzenes, *International Journal of Chemical Kinetic*, 36, 11, 577-583, 2004. **ISI 1.566**

35. Geiger, H., I. Barnes, I. Bejan, T. Benter, M. Spittler, The tropospheric degradation of isoprene: an updated module for the regional atmospheric chemistry mechanism, Atmospheric Environment, 37, 11, 1503-1519, 2003. **ISI 3.062**

I.2 Articole științifice publicate *in extenso* în reviste indexate *Web of Science* fără factor de impact.

TOTAL = 3,33 puncte

1. Cucu-Man S., R. Mocanu, I. Bejan, C. Duncianu, M. Duncianu, E. Steinnes., Autochthonous moss species used in atmospheric heavy metals survey (Romania), *Analele Universitatii "AL. I. Cuza" Iasi*, Secția chimie, Seria XII, 25-32, 2004.

I.3 Articole științifice publicate în extenso în reviste indexate BDI/[15 puncte/număr de autori]

TOTAL = 8,0 puncte

2. Bejan, I. Barnes, R.I. Olariu, C. Arsene, K.H. Becker, K. Wirtz. Kinetic with NO₃ radicals in EUPHORE chamber, EUPHORE, 5H REPORT 2002, eds.: Ian Barnes Compiled and Produced by Institute of Physical Chemistry, Bergische Universitat Wuppertal, Germany, 2005.
3. R.I. Olariu, Al. Tomas, I. Barnes, I. Bejan, K.H. Becker, K. Wirtz. Atmospheric Ozone Degradation Reaction of 1,2-Dihydroxybenzene: Aerosol Formation Study in The European Photoreactor EUPHORE, 4TH REPORT 2001, ISBN 84-921259-2-6, eds.: Ian Barnes and Klaus Wirtz, Compiled and Produced by Institute of Physical Chemistry, Bergische Universitat Wuppertal, Germany & Fundacion Centro de Estudios del Mediterraneo Valencia, 54-71, 2004.
4. Barnes, I., I. Bejan, K.J. Brockmann, M. Spittler and K.Wirtz, Formation of secondary organic aerosol by oxidation of biogenic VOCs with NO₃ Radicals, in The European Photoreactor EUPHORE, 4TH REPORT 2001, ISBN 84-921259-2-6, eds.: Ian Barnes and Klaus Wirtz, Compiled and Produced by Institute of Physical Chemistry, Bergische Universitat Wuppertal, Germany & Fundacion Centro de Estudios del Mediterraneo Valencia, 144-150, 2004.

I.4 Articole științifice publicate în extenso volumele conferințelor

TOTAL = 60.83 puncte

indexate ISI/[30 puncte/număr de autori]

43.83 puncte

1. I. Bejan, I. Barnes, R. Olariu, R. Mocanu, FT-IR study of the kinetic gas-phase reactions of the OH radical with a series of nitroaromatic compounds. NATO Science Series: IV: Earth and Environmental Sciences, Ed. by Ian Barnes and Krzysztof J. Rudzinski, ISBN 13 978-1-4020-4230-2, 62, 155-162, 2005.
2. Barnes, I., I. Bejan, Gas Phase Processes Relevant to the Mediterranean Some New and Important Topics, Proceedings of the NATO Advanced Research Workshop on Regional Climate Variability and its Impacts in the Mediterranean Area, Marrakech, Ed. by A. Mellouki and A.R. Ravishankara, IV. Earth and Environmental Sciences – Vol. 79, ISBN 978-1-4020-6428-9(PB), 2007, 235-251,
3. Blanco, M.B., I. Bejan, I. Barnes, P. Wiesen, M.A. Teruel, Methyl methacrylate in the atmosphere: OH- and Cl- initiated oxidation in the gas phase, NATO Advanced Research Workshop, Simulation and Assessment of Chemical Processes in a Multiphase Environment, Edited by: Barnes, I; Kharytonov, MM, 2008, 485-494,
4. Zhou, Sh., I. Barnes, T. Zhu, I. Bejan, Th. Benter, Exploratory Studies on Secondary Organic Aerosol Formation in the Ozonolysis of Alkyl Vinyl Ethers, NATO Advanced Research Workshop, Simulation and Assessment of Chemical Processes in a Multiphase Environment, Edited by: Barnes, I; Kharytonov, MM, 2008, 523-531
5. Derpmann, V., Bejan, I., Kersten, H., Brockmann, K.J., Barnes, I., Kleffmann, J., Benter, T., Sonderfeld, H., Koppmann, R., An Ionization Method Based on Photoelectron Induced Thermal Electron Generation: Capillary Atmospheric Pressure Electron Capture Ionization (cAPECI), NATO Science for Peace and Security Series C: Environmental Security, ISBN: 978-940075033-3, Ed. by Ian Barnes and Krzysztof J. Rudzinski, Volume 120, 2013, 239-248
6. Kleffmann, J., Tapia, G.V., Bejan, I., Kurtenbach, R., Wiesen, P., NO₂ Measurement Techniques: Pitfalls and New Developments, NATO Science for Peace and Security Series C: Environmental Security, ISBN: 978-940075033-3, Ed. by Ian Barnes and Krzysztof J. Rudzinski, Volume 120, 2013, 15-28.

indexate BDI/[15 puncte/număr de autori]

17.00 puncte

1. Olariu, R.I.; Barnes, I.; Bejan, I.; Becker, K.H. and Wirtz, K., Rate Constants for the Gas-Phase Reaction of the NO₃ Radicals with a Series of Bezendiol Compounds., Proceedings from 17th International Symposium on Gas Kinetics, 2002, AP04.
2. Bejan, I.; Olariu, R.I.; Barnes, I.; Benter, Th. and Wirtz, K., FT-IR Investigation of the Gas-Phase Reaction of the NO₃ Radical with a Series of Bezendiol Compounds in Proceedings from the EC/EUROTRAC-2 Joint Workshop, EC Cluster "Chemical Mechanism Development", Shaping the future of the Atmospheric Chemistry research in Europe, 2002, 37-42.
3. Geiger, H. I. Barnes, I. Bejan, Th. Benter, M. Spittler, A New Chemical Module for Tropospheric Isoprene Degradation Applied to the RACM Mechanism, in Proceedings from the EC/EUROTRAC-2 Joint Workshop, EC Cluster "Chemical Mechanism Development", Shaping the future of the Atmospheric Chemistry research in Europe, 2002, 259-265.
4. Tomas, A.; Olariu, R.I.; Barnes, I.; Bejan, I.; Geiger, H., Mocanu, R., Atmospheric Chemistry of Benzenediols. Reaction with O₃ in Proceedings from the EUROTRAC-2 Symposium 2002, Margraf Verlag, Weikersheim 2002.
5. Zhou, Sh., I. Barnes, T. Zhu, I. Bejan, Th. Benter, Rate Constants for the Gas Phase Reactions of OH and NO₃ radicals and O₃ with selected vinyl ethers, Proceedings of the "19th International Symposium on Gas Kinetics", 2006, Ed. by Philippe Dagaut and Abdelwahid Mellouki, pp65
6. Bejan, I., I. Barnes, R. Olariu, M. Duncianu, Sh. Zhou, K.H. Becker, Investigations on the Gas Phase Chlorine Atom Initiated Oxidation of 1,2-Dihydroxybenzenes, Proceedings of the "19th International Symposium on Gas Kinetics", 2006, Ed. by Philippe Dagaut and Abdelwahid Mellouki, pp109

I.9 Contracte de cercetare științifică în instituții academice

TOTAL = 330.47 puncte

contracte internaționale – director/[100 puncte pentru fiecare 100000 Euro]

330.47 puncte

1. Contract Marie Curie IntraEuropean Fellowship (IEF) LAMUNIO-Laboratory and Modelling studies to Understand Isoprene Oxidation. Grant 331806. Perioada: July 2013-July2015, Valoare totală: **247388.16 EUR**.
2. Contract IRCSET Fellowship Irish Research Council for Science, Engineering & Technology (IRCSET), Atmospheric Chemistry of Oxygenated Aromatic Compounds: Mechanisms & Aerosols, 1st Aug 2008-31st July 2010, Valoare totală: **83095.00 EUR**.

contracte internaționale – membru/[100 puncte pentru fiecare 100000 Euro/numărul membrilor echipei de cercetare]

1. **German Research Foundation (DFG) project POXSA (BE 2124/4-1)** for development of new ionization technique for nitroaromatic detection using mass spectrometry.
2. **DFG project** "Kinetic and mechanistic investigations of the gas phase photolysis of ortho-substituted nitroaromatics KL1392/2-1.
3. **TOXIC project** "Toluene Oxidation Investigations in a Chamber".
4. **DFG (German Research Foundation) project** for the development of Ozone-LOPAP instrument.
5. **DBU (German Environment Foundation) project** for the development of NO₂-LOPAP instrument contract No. 24171.
6. **DAAD (German Academic Exchange Service) project**, Germany - Argentinien, **PROALAR 2007**.
7. **EU project: "Multiphase chemistry of oxygenated species in the troposphere" (Joint project MOST, (no° EVK2-CT-2001-00114).**
8. **BMBF project** of the German Atmospheric Research Programme AFO 2000 "Regional biogenic emissions of reactive volatile organic compounds (BVOC) from forests: Process studies, modelling and validation experiments (BEWA2000)" (no° FZK – 07ATF25) subproject 201 "Laboratory and Smog Chamber Experiments on the Atmospheric Degradation of Biogenic VOC: Investigation of the Aerosol Formation and Validation of Chemical Mechanisms" (BEWA).
9. **EU project: "Origin and formation of secondary organic aerosol" (Joint project OSOA, (no° EVK2-1999-00016).**
10. **BMBF project of the German Atmospheric Research Programme AFO 2000:** "Validation of chemical mechanisms to describe the degradation of isoprene and α-pinene within 3-dimensional chemistry transport models" (Joint project ValCheM (no° FZK – 07ATF13).
11. **EU project "Effects of the oxidation of Aromatic Compounds in the Troposphere (EXACT)" (no° EVK4 – CT1999 - 00053974064).**

I.12 Citări și recenzii ale lucrărilor științifice

TOTAL = 5623,72 puncte

a) Reviste de specialitate din străinătate [(10+20 x factor de impact)/număr de autori]

5623,72 puncte

The tropospheric degradation of isoprene: an updated module for the regional atmospheric chemistry mechanism,

Geiger, H., I. Barnes, I. Bejan, T. Benter, M. Spittler,

Atmospheric Environment, 37, 11, 1503-1519, 2003

51-citări

1. Lu, K.D., Rohrer, F., Holland, F., Fuchs, H., Brauers, T., Oebel, A., Dlugi, R., Hu, M., Li, X., Lou, S.R., Shao, M., Zhu, T., Wahner, A., Zhang, Y.H., Hofzumahaus, A., Nighttime observation and chemistry of HOx in the Pearl River Delta and Beijing in summer 2006, *Atmospheric Chemistry and Physics*, 2014, 14, 10, 4979-4999.
2. Baklanov, A., Schlünzen, K., Suppan, P., Baldasano, J., Brunner, D., Aksoyoglu, S., Carmichael, G., Douros, J., Flemming, J., Forkel, R., Galmarini, S., Gauss, M., Grell, G., Hirtl, M., Joffre, S., Jorba, O., Kaas, E., Kaasik, M., Kallos, G., Kong, X., Korsholm, U., Kurganskiy, A., Kushta, J., Lohmann, U., Mahura, A., Manders-Groot, A., Maurizi, A., Moussiopoulos, N., Rao, S.T., Savage, N., Seigneur, C., Sokhi, R.S., Solazzo, E., Solomos, S., Sørensen, B., Tsegas, G., Vignati, E., Vogel, B., Zhang, Y., Online coupled regional meteorology chemistry models in Europe: Current status and prospects, *Atmospheric Chemistry and Physics*, 2014, 1, 317-398,
3. Nölscher, A.C., Butler, T., Auld, J., Veres, P., Muñoz, A., Taraborrelli, D., Vereecken, L., Lelieveld, J., Williams, J., Using total OH reactivity to assess isoprene photooxidation via measurement and model, *Atmospheric Environment*, 2014, 453-463
4. Tsai, C., Wong, C., Hurlock, S., Pikel'naya, O., Mielke, L.H., Osthoff, H.D., Flynn, J.H., Haman, C., Lefer, B., Gilman, J., De Gouw, J., Stutz, J., Nocturnal loss of NOx during the 2010 CalNex-LA study in the Los Angeles Basin, *Journal of Geophysical Research D: Atmospheres*, 2014, 22, 13004-13025
5. Li, Y.P., Elbern, H., Lu, K.D., Friese, E., Kiendler-Scharr, A., Mentel, Th.F., Wang, X.S., Wahner, A., Zhang, Y.H., Updated aerosol module and its application to simulate secondary organic aerosols during IMPACT campaign May 2008, *Atmospheric Chemistry and Physics*, 2013, 13, 6289-6304
6. Griffith, S.M., Hansen, R.F., Dusanter, S., Stevens, P.S., Alaghmand, M., Bertman, S.B., Carroll, M.A., Erickson, M., Galloway, M., Grossberg, N., Hottle, J., Hou, J., Jobson, B.T., Kamrath, A., Keutsch, F.N., Lefer, B.L., Mielke, L.H., O'Brien, A., Shepson, P.B., Thurlow, M., Wallace, W., Zhang, N., Zhou, X.L., OH and HO2 radical chemistry during PROPHET 2008 and CABINEX 2009 - Part 1: Measurements and model comparison, *Atmospheric Chemistry and Physics*, 2013, 5403-5423
7. Cheng, H.R., Saunders, S.M., Guo, H., Louie, P.K.K., Jiang, F., Photochemical trajectory modeling of ozone concentrations in Hong Kong, *Environmental Pollution*, 2013, 101-110
8. Goliff, W.S., Stockwell, W.R., Lawson, C.V., The regional atmospheric chemistry mechanism, version 2, *Atmospheric Environment*, 2013, 174-185.
9. Knote, C., Brunner, D., An advanced scheme for wet scavenging and liquid-phase chemistry in a regional online-coupled chemistry transport model, *Atmospheric Chemistry and Physics*, 2013, 3, 1177-119.
10. Lu, K.D., Hofzumahaus, A., Holland, F., Bohn, B., Brauers, T., Fuchs, H., Hu, M., Häsel, R., Kita, K., Kondo, Y., Li, X., Lou, S.R., Oebel, A., Shao, M., Zeng, L.M., Wahner, A., Zhu, T., Zhang, Y.H., Rohrer, F., Missing OH source in a suburban environment near Beijing: Observed and modelled OH and HO2 concentrations in summer 2006, *Atmospheric Chemistry and Physics*, 2013, 2, 1057-1080.
11. Athanasopoulou, E., Vogel, H., Vogel, B., Tsimpidi, A.P., Pandis, S.N., Knote, C., Fountoukis, C., Modeling the meteorological and chemical effects of secondary organic aerosols during an EUCAARI campaign, *Atmospheric Chemistry and Physics*, 2013, 2, 625-645.
12. Browne, E.C., Cohen, R.C., Effects of biogenic nitrate chemistry on the NOx lifetime in remote continental regions, *Atmospheric Chemistry and Physics*, 2012, 24, 11917-11932.
13. Lu, K.D., Rohrer, F., Holland, F., Fuchs, H., Bohn, B., Brauers, T., Chang, C.C., Häsel, R., Hu, M., Kita, K., Kondo, Y., Li, X., Lou, S.R., Nehr, S., Shao, M., Zeng, L.M., Wahner, A., Zhang, Y.H., Hofzumahaus, A., Observation and modelling of OH and HO2 concentrations in the Pearl River Delta 2006: A missing OH source in a VOC rich atmosphere, *Atmospheric Chemistry and Physics*, 2012, 3, 1541-1569.
14. Bryan, A.M., Bertman, S.B., Carroll, M.A., Dusanter, S., Edwards, G.D., Forkel, R., Griffith, S., Guenther, A.B., Hansen, R.F., Helmig, D., Jobson, B.T., Keutsch, F.N., Lefer, B.L., Pressley, S.N., Shepson, P.B., Stevens, P.S., Steiner, A.L., In-canopy gas-phase chemistry during CABINEX 2009: Sensitivity of a 1-D canopy model to vertical mixing and isoprene chemistry, *Atmospheric Chemistry and Physics*, 2012, 18, 8829-8849.
15. Porter, W.C., Barsanti, K.C., Baughman, E.C., Rosenstiel, T.N., Considering the air quality impacts of bioenergy crop production: A case study involving *Arundo donax*, *Environmental Science and Technology*, 2012, 17, 9777-9784.
16. Zyryanov, D., Foret, G., Eremenko, M., Beekmann, M., Cammas, J.-P., D'Isidoro, M., Elbern, H., Flemming, J., Friese, E., Kioutsioutkis, I., Maurizi, A., Melas, D., Meleux, F., Menut, L., Moinat, P., Peuch, V.-H., Poupkou, A., Razinger, M., Schultz, M., Stein, O., Suttie, A.M., Valdebenito, A., Zerefos, C., Dufour, G., Bergametti, G., Flaud, J.-M., 3-D evaluation of tropospheric ozone simulations by an ensemble of regional Chemistry Transport Model, *Atmospheric Chemistry and Physics*, 2012, 7, 3219-3240.

17. Monteiro, A., Strunk, A., Carvalho, A., Tchepel, O., Miranda, A.I., Borrego, C., Saavedra, S., Rodríguez, A., Souto, J., Casares, J., Friese, E., Elbern, H., Investigating a high ozone episode in a rural mountain site, *Environmental Pollution*, 2012, 176-189.
18. Elshorbany, Y.F., Kleffmann, J., Hofzumahaus, A., Kurtenbach, R., Wiesen, P., Brauers, T., Bohn, B., Dorn, H.-P., Fuchs, H., Holland, F., Rohrer, F., Tillmann, R., Wegener, R., Wahner, A., Kanaya, Y., Yoshino, A., Nishida, S., Kajii, Y., Martinez, M., Kubistin, D., Harder, H., Lelieveld, J., Elste, T., Plass-Dlmer, C., Stange, G., Berresheim, H., Schurath, U., HOx budgets during HOxComp: A case study of HOx chemistry under NOx-limited conditions, *Journal of Geophysical Research: Atmospheres*, 2012, 3, D03307.
19. Song, S.-K., Kim, Y.-K., Shon, Z.-H., Ryu, J.-Y., Photochemical analyses of ozone and related compounds under various environmental conditions, *Atmospheric Environment*, 2012, 446-458.
20. Borrego, C., Monteiro, A., Pay, M.T., Ribeiro, I., Miranda, A.I., Basart, S., Baldasano, J.M., How bias-correction can improve air quality forecasts over Portugal, *Atmospheric Environment*, 2011, 37, 6629-6641.
21. Suppan, P., Forkel, R., Haas, E., The on-line coupled mesoscale climate-chemistry model MCCM: A modelling tool for short episodes as well as for climate periods, *Integrated Systems of Meso-Meteorological and Chemical Transport Models*, 2011, 81-88.
22. Grell, G., Fast, J., Gustafson Jr., W.I., Peckham, S.E., McKeen, S., Salzmann, M., Freitas, S., On-line chemistry within WRF: Description and evaluation of a state-of-the-art multiscale air quality and weather prediction mode, *Integrated Systems of Meso-Meteorological and Chemical Transport Models*, 2011, 41-54.
23. Colette, A., Granier, C., Hodnebrog, Ø., Jakobs, H., Maurizi, A., Nyiri, A., Bessagnet, B., D'Angiola, A., D'Isidoro, M., Gauss, M., Meleux, F., Memmesheimer, M., Mieville, A., Roüil, L., Russo, F., Solberg, S., Stordal, F., Tampieri, F., Air quality trends in Europe over the past decade: A first multi-model assessment, *Atmospheric Chemistry and Physics*, 2011, 22, 11657-11678.
24. Strunk, A., Elbern, H., Ebel, A., Using satellite observations for air quality assessment with an inverse model system, *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 2011, 174-181.
25. Lou, S., Holland, F., Rohrer, F., Lu, K., Bohn, B., Brauers, T., Chang, C.C., Fuchs, H., Häsel, R., Kita, K., Kondo, Y., Li, X., Shao, M., Zeng, L., Wahner, A., Zhang, Y., Wang, W., Hofzumahaus, A., Atmospheric OH reactivities in the Pearl River Delta - China in summer 2006: Measurement and model results, *Atmospheric Chemistry and Physics*, 2010, 22, 11243-11260.
26. Peeters, J., Müller, J.-F., HOx radical regeneration in isoprene oxidation via peroxy radical isomerisations. II: Experimental evidence and global impact, *Physical Chemistry Chemical Physics*, 2010, 42, 14227-14235.
27. Huijnen, V., Eskes, H.J., Poupkou, A., Elbern, H., Boersma, K.F., Foret, G., Sofiev, M., Valdebenito, A., Flemming, J., Stein, O., Gross, A., Robertson, L., D'Isidoro, M., Kioutsioukis, I., Friese, E., Amstrup, B., Bergstrom, R., Strunk, A., Vira, J., Zyryanov, D., Maurizi, A., Melas, D., Peuch, V.-H., Zerefos, C., Comparison of OMI NO2 tropospheric columns with an ensemble of global and European regional air quality models, *Atmospheric Chemistry and Physics*, 2010, 7, 3273-3296.
28. Lu, K., Zhang, Y., Observations of HOx radical in field studies and the analysis of its chemical mechanism, *Progress in Chemistry*, 2010, 02-03, 500-514.
29. Haas, E., Forkel, R., Suppan, P., Application and intercomparison of the RADM2 and RACM chemistry mechanism including a new isoprene degradation scheme within the regional Meteorology-chemistry-model MCCM, *International Journal of Environment and Pollution*, 2010, 01-03, 136-148.
30. Riemer, N., Vogel, H., Vogel, B., Anttila, T., Kiendler-Scharr, A., Mentel, T.F., Relative importance of organic coatings for the heterogeneous hydrolysis of N2O5 during summer in Europe, *Journal of Geophysical Research: Atmospheres*, 2009, 17, D17307.
31. Vogel, B., Vogel, H., Baumerr, D., Bangert, M., Lundgren, K., Rinke, R., Stanelle, T., The comprehensive model system COSMO-ART Radiative impact of aerosol on the state of the atmosphere on the regional scale, *Atmospheric Chemistry and Physics*, 2009, 22, 8661-8680.
32. Taraborrelli, D., Lawrence, M.G., Butler, T.M., Sander, R., Lelieveld, J., Mainz Isoprene Mechanism 2 (MIM2): An isoprene oxidation mechanism for regional and global atmospheric modeling, *Atmospheric Chemistry and Physics*, 2009, 8, 2751-2777.
33. Kim, S.-W., Heckel, A., Frost, G.J., Richter, A., Gleason, J., Burrows, J.P., McKeen, S., Hsie, E.-Y., Granier, C., Trainer, M., NO2 columns in the western United States observed from space and simulated by a regional chemistry model and their implications for NO x emissions, *Journal of Geophysical Research: Atmospheres*, 2009, 11, D11301.
34. Stern, R., Builtjes, P., Schaap, M., Timmermans, R., Vautard, R., Hodzic, A., Memmesheimer, M., Feldmann, H., Renner, E., Wolke, R., Kerschbaumer, A., A model inter-comparison study focussing on episodes with elevated PM10 concentrations, *Atmospheric Environment*, 2008, 19, 4567-4588.
35. Memmesheimer, M., Wurzler, S., Friese, E., Jakobs, H.J., Feldmann, H., Ebel, A., Kessler, C., Geiger, J., Hartmann, U., Brandt, A., Pfeffer, U., Dorn, H.-P., Chapter 2.8 Long-term simulations of photo-oxidants

and particulate matter over Europe with emphasis on North Rhine-Westphalia, *Developments in Environmental Science*, 2007, 158-167.

36. Williams, J., Koppmann, R., *Volatile Organic Compounds in the Atmosphere: An Overview*, Volatile Organic Compounds in the Atmosphere, 2007.
37. Forkel, R., Knoche, R., Nested regional climate-chemistry simulations for central Europe, *Comptes Rendus – Geoscience*, 2007, 11-12, 734-746.
38. Fuentes, J.D., Wang, D., Bowling, D.R., Potosnak, M., Monson, R.K., Goliff, W.S., Stockwell, W.R., Biogenic hydrocarbon chemistry within and above a mixed deciduous forest, *Journal of Atmospheric Chemistry*, 2007, 2, 165-185.
39. Karl, M., Dorn, H.-P., Holland, F., Koppmann, R., Poppe, D., Rupp, L., Schaub, A., Wahner, A., Product study of the reaction of OH radicals with isoprene in the atmosphere simulation chamber SAPHIR, *Journal of Atmospheric Chemistry*, 2006, 2, 167-187.
40. Rohrer, F., Berresheim, H., Strong correlation between levels of tropospheric hydroxyl radicals and solar ultraviolet radiation, *Nature*, 2006, 7099, 184-187.
41. Ebel, A., Memmesheimer, M., Friese, E., Jakobs, H.J., Feldmann, H., Kessler, C., Piekorz, G., Long-term atmospheric aerosol simulations - Computational and theoretical challenges, *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 2006, 490-497.
42. Ghauch, A., Kaluzny, P., Deveau, P.-A., Baussand, P., Effects of chlorinated volatile organic compounds on the degradation of biogenic alkenes in presence of ozone in an atmospheric simulation chamber, *Fresenius Environmental Bulletin*, 2005, 11, 1058-1065.
43. Lim, H.-J., Carlton, A.G., Turpin, B.J., Isoprene forms secondary organic aerosol through cloud processing: Model simulations, *Environmental Science and Technology*, 2005, 12, 4441-4446.
44. Dibble, T.S., Computations on the $\dot{A} - \dot{X}$ transition of isoprene $-OH-O_2$ peroxy radicals, *Journal of Computational Chemistry*, 2005, 8, 836-845.
45. Doyle, M., Sexton, K.G., Jeffries, H., Bridge, K., Jaspers, I., Effects of 1,3-butadiene, isoprene, and their photochemical degradation products on human lung cells, *Environmental Health Perspectives*, 2004, 15, 1488-1495.
46. Geyer, A., Stutz, J., The vertical structure of OH-HO₂-RO₂ chemistry in the nocturnal boundary layer: A one-dimensional model study, *Journal of Geophysical Research D: Atmospheres*, 2004, 16, D16301, 1-16.
47. Rudzinski, K.J., Degradation of isoprene in the presence of sulphonyl radical anions, *Journal of Atmospheric Chemistry*, 2004, 2, 191-216.
48. Karl, M., Brauers, Th., Dorn, H.-P., Holland, F., Komenda, M., Poppe, D., Rohrer, F., Rupp, L., Schaub, A., Wahner, A., Kinetic study of the OH-isoprene and O₃-isoprene reaction in the atmosphere simulation chamber, SAPHIR, *Geophysical Research Letters*, 2004, 5, L05117.
49. Claeys, M., Graham, B., Vas, G., Wang, W., Vermeylen, R., Pashynska, V., Cafmeyer, J., Guyon, P., Andreae, M.O., Artaxo, P., Maenhaut, W., Formation of Secondary Organic Aerosols Through Photooxidation of Isoprene, *Science*, 2004, 5661, 1173-1176.
50. von Kuhlmann, R., Lawrence, M.G., Pöschl, U., Crutzen, P.J., Sensitivities in global scale modeling of isoprene, *Atmospheric Chemistry and Physics*, 2004, 1, 1-17.
51. Luria, M., Imhoff, R.E., Valente, R.J., Tanner, R.L., Ozone yields and production efficiencies in a large power plant plume, *Atmospheric Environment*, 2003, 25, 3593-3603.

Rate coefficients for the gas-phase reaction of NO₃ radicals with selected dihydroxybenzenes,

Olariu R.I., I. Bejan, I. Barnes, B. Klotz, K.H. Becker, K. Wirtz,

International Journal of Chemical Kinetics, 36, 11, 577-583, 2004.

9 citări

52. Olariu, R.I., Barnes, I., Bejan, I., Arsene, C., Vione, D., Klotz, B., Becker, K.H., FT-IR product study of the reactions of NO₃ radicals with ortho -, meta -, and para-cresol, *Environmental Science and Technology*, 47, 14, 2013, 7729-7738.
53. Bernard, F., Magneron, I., Eyglunent, G., Daële, V., Wallington, T.J., Hurley, M.D., Mellouki, A., Atmospheric chemistry of benzyl alcohol: Kinetics and mechanism of reaction with OH radicals, *Environmental Science and Technology*, 47, 7, 2013, 3182-3189.
54. Ziemann, P.J., Atkinson, R. Kinetics, products, and mechanisms of secondary organic aerosol formation, *Chemical Society Reviews*, 41, 19, 2012, 6582-6605.
55. Bedini, A., Maurino, V., Minero, C., Vione, D., Theoretical and experimental evidence of the photonitration pathway of phenol and 4-chlorophenol: A mechanistic study of environmental significance, *Photochemical and Photobiological Sciences*, 11, 2, 2012, 418-424.
56. Kersten, H., Derpmann, V., Barnes, I., Brockmann, K.J., O'Brien, R., Benter, T., A novel APPI-MS setup for in situ degradation product studies of atmospherically relevant compounds: Capillary atmospheric pressure photo ionization (cAPPI), *Journal of the American Society for Mass Spectrometry*, 22, 11, 2011, 2070-2081.

57. Coeur-Tourneur, C., Cassez, A., Wenger, J.C., Rate coefficients for the gas-phase reaction of hydroxyl radicals with 2-methoxyphenol (guaiacol) and related compounds, *Journal of Physical Chemistry A*, 114, 43, 2010, 11645-11650.
58. Coeur-Tourneur, C., Foulon, V., Laréal, M. Determination of aerosol yields from 3-methylcatechol and 4-methylcatechol ozonolysis in a simulation chamber, *Atmospheric Environment*, 44, 6, 2010, 852-857.
59. Klöpffer, W., Wagner, B.O. Atmospheric Degradation of Organic Substances: Data for Persistence and Long-range Transport Potential, *Atmospheric Degradation of Organic Substances: Data for Persistence and Long-range Transport Potential*, 2007.
60. Thüner, L.P., Bardini, P., Rea, G.J., Wenger, J.C., Kinetics of the gas-phase reactions of OH and NO₃ radicals with dimethylphenols, *Journal of Physical Chemistry A*, 108, 50, 2004, 11019-11025.

The Photolysis of ortho-nitrophenol: a new gas phase source of HONO,

Bejan, I., Y. Abd El Aal, I. Barnes, Th. Benter, B. Bohn, P. Wiesen, J. Kleffmann,
Physical Chemistry Chemical Physics, 8, 2028-2035, 2006.

73 citări

61. Oswald, R., Ermel, M., Hens, K., Novelli, A., Ouwersloot, H.G., Paasonen, P., Petäjä, T., Sipilä, M., Keronen, P., Bäck, J., Königstedt, R., Hosaynali Beygi, Z., Fischer, H., Bohn, B., Kubistin, D., Harder, H., Martinez, M., Williams, J., Hoffmann, T., Trebs, I., Sörgel, M., A comparison of HONO budgets for two measurement heights at a field station within the boreal forest in Finland, *Atmospheric Chemistry and Physics*, 15, 2, 2015, 799-813.
62. Shenghur, A., Weber, K.H., Nguyen, N.D., Sontising, W., Tao, F.-M., Theoretical study of the hydrogen abstraction of substituted phenols by nitrogen dioxide as a source of HONO, *Journal of Physical Chemistry A*, 118, 46, 2014, 11002-11014.
63. Kawade, M.N., Saha, A., Upadhyaya, H.P., Kumar, A., Naik, P.D., Photodissociation dynamics of 2-chloro-6-nitrotoluene and nitrocyclopentane in gas phase: Laser-induced fluorescence detection of OH, *Chemical Physics*, 443, 2014, 123-132.
64. Lignell, H., Hinks, M.L., Nizkorodov, S.A., Exploring matrix effects on photochemistry of organic aerosols, *Proceedings of the National Academy of Sciences of the United States of America*, 111, 38, 2014, 13780-13785.
65. Wu, D., Kampf, C.J., Pöschl, U., Oswald, R., Cui, J., Ermel, M., Hu, C., Trebs, I., Sörgel, M., Novel tracer method to measure isotopic labeled gas-phase nitrous acid (HO₁₅NO) in biogeochemical studies, *Environmental Science and Technology*, 48, 14, 2014, 8021-8027.
66. Rappenglück, B., Ackermann, L., Alvarez, S., Golovko, J., Buhr, M., Field, R.A., Soltis, J., Montague, D.C., Hauze, B., Adamson, S., Risch, D., Wilkerson, G., Bush, D., Stoeckenius, T., Keslar, C., Strong wintertime ozone events in the Upper Green River basin, Wyoming, *Atmospheric Chemistry and Physics*, 14, 10, 2014, 4909-4934.
67. Lauraguais, A., Coeur-Tourneur, C., Cassez, A., Deboudt, K., Fourmentin, M., Choël, M., Atmospheric reactivity of hydroxyl radicals with guaiacol (2-methoxyphenol), a biomass burning emitted compound: Secondary organic aerosol formation and gas-phase oxidation products, *Atmospheric Environment*, 86, 2014, 155-163.
68. Michoud, V., Colomb, A., Borbon, A., Miet, K., Beekmann, M., Camredon, M., Aumont, B., Perrier, S., Zapf, P., Siour, G., Ait-Helal, W., Afif, C., Kukui, A., Furger, M., Dupont, J.C., Haefelin, M., Doussin, J.F., Study of the unknown HONO daytime source at a European suburban site during the MEGAPOLI summer and winter field campaigns, *Atmospheric Chemistry and Physics*, 14, 6, 2014, 2805-2822.
69. Derpmann, V., Mueller, D., Bejan, I., Sonderfeld, H., Wilberscheid, S., Koppmann, R., Brockmann, K.J., Benter, T., Capillary atmospheric pressure electron capture ionization (cAPECI): A highly efficient ionization method for Nitroaromatic compounds, *Journal of the American Society for Mass Spectrometry*, 25, 3, 2014, 329-342.
70. An, J.-L., Li, Y., Tang, Y.-J., Chen, Y., Qu, Y. Advances in HONO sources, HONO simulations, and the impacts of the HONO sources on regional or global air quality, *Zhongguo Huanjing Kexue/China Environmental Science*, 34, 2, 2014, 273-281.
71. Muñoz, A., Vera, T., Ródenas, M., Borrás, E., Mellouki, A., Treacy, J., Sidebottom, H., Gas-phase degradation of the herbicide ethalfluralin under atmospheric conditions, *Chemosphere*, 95, 2014, 395-401.
72. Wang, S., Zhou, R., Zhao, H., Wang, Z., Chen, L., Zhou, B., Long-term observation of atmospheric nitrous acid (HONO) and its implication to local NO₂ levels in Shanghai, China, *Atmospheric Environment*, 77, 2013, 718-724.
73. Vandenboer, T.C., Brown, S.S., Murphy, J.G., Keene, W.C., Young, C.J., Pszenny, A.A.P., Kim, S., Warneke, C., De Gouw, J.A., Maben, J.R., Wagner, N.L., Riedel, T.P., Thornton, J.A., Wolfe, D.E., Dubé, W.P., Öztürk, F., Brock, C.A., Grossberg, N., Lefer, B., Lerner, B., Middlebrook, A.M., Roberts, J.M., Understanding the role of the ground surface in HONO vertical structure: High resolution vertical profiles during NACHTT-11, *Journal of Geophysical Research: Atmospheres*, 118, 17, 2013, 10155-10171.
74. Kleffmann, J., Tapia, G.V., Bejan, I., Kurtenbach, R., Wiesen, P., NO₂ Measurement Techniques: Pitfalls and New Developments, *NATO Science for Peace and Security Series C: Environmental Security*, 120, 2013, 15-28.

75. Derpmann, V., Bejan, I., Kersten, H., Brockmann, K.J., Barnes, I., Kleffmann, J., Benter, T., Sonderfeld, H., Koppmann, R., An Ionization Method Based on Photoelectron Induced Thermal Electron Generation: Capillary Atmospheric Pressure Electron Capture Ionization (cAPECI), NATO Science for Peace and Security Series C: Environmental Security, 120, 2013, 239-248.
76. Stutz, J., Wong, K.W., Tsai, C., Field Observations of Daytime HONO Chemistry and Its Impact on the OH Radical Budget, NATO Science for Peace and Security Series C: Environmental Security, 120, 2013, 1-14.
77. Tortajada-Genaro, L.A., Borrás, E., Muñoz, A., Gas-phase and particulate products from the atmospheric degradation of an isoxazole fungicide *Chemosphere*, 92, 8, 2013, 1035-1041.
78. Olariu, R.I., Barnes, I., Bejan, I., Arsene, C., Vione, D., Klotz, B., Becker, K.H., FT-IR product study of the reactions of NO₃ radicals with ortho -, meta -, and para-cresol, *Environmental Science and Technology*, 47, 14, 2013, 7729-7738.
79. Cheng, P., Cheng, Y., Lu, K., Su, H., Yang, Q., Zou, Y., Zhao, Y., Dong, H., Zeng, L., Zhang, Y., An online monitoring system for atmospheric nitrous acid (HONO) based on stripping coil and ion chromatography, *Journal of Environmental Sciences (China)*, 25, 5, 2013, 895-907.
80. Wong, K.W., Tsai, C., Lefer, B., Grossberg, N., Stutz, J., Modeling of daytime HONO vertical gradients during SHARP 2009, *Atmospheric Chemistry and Physics*, 13, 7, 2013, 3587-3601.
81. Spataro, F., Ianniello, A., Esposito, G., Allegrini, I., Zhu, T., Hu, M., Occurrence of atmospheric nitrous acid in the urban area of Beijing (China), *Science of the Total Environment*, 447, 2013, 210-224.
82. Shen, L., Zhang, Z., Heterogeneous reactions of NO₂ on the surface of black carbon, *Progress in Chemistry*, 25, 1, 2013, 28-35.
83. Han, C., Liu, Y., He, H., Heterogeneous photochemical aging of soot by NO₂ under simulated sunlight, *Atmospheric Environment*, 64, 2013, 270-276.
84. Villena, G., Bejan, I., Kurtenbach, R., Wiesen, P., Kleffmann, J., Interferences of commercial NO₂ instruments in the urban atmosphere and in a smog chamber, *Atmospheric Measurement Techniques*, 5, 1, 2012, 149-159.
85. Li, X., Brauers, T., Häseler, R., Bohn, B., Fuchs, H., Hofzumahaus, A., Holland, F., Lou, S., Lu, K.D., Rohrer, F., Hu, M., Zeng, L.M., Zhang, Y.H., Garland, R.M., Su, H., Nowak, A., Wiedensohler, A., Takegawa, N., Shao, M., Wahner, A., Exploring the atmospheric chemistry of nitrous acid (HONO) at a rural site in Southern China, *Atmospheric Chemistry and Physics*, 12, 3, 2012, 1497-1513.
86. Zhang, R., Sarwar, G., Fung, J.C.H., Lau, A.K.H., Zhang, Y., Examining the impact of nitrous acid chemistry on ozone and PM over the pearl river delta region, *Advances in Meteorology*, 2012, 2012.
87. Elshorbany, Y.F., Steil, B., Brühl, C., Lelieveld, J., Impact of HONO on global atmospheric chemistry calculated with an empirical parameterization in the EMAC model, *Atmospheric Chemistry and Physics*, 12, 20, 2012, 9977-10000.
88. Healy, R.M., Chen, Y., Kourtev, I., Kalberer, M., O Shea, D., Wenger, J.C., Rapid formation of secondary organic aerosol from the photolysis of 1-nitronaphthalene: Role of naphthoxy radical self-reaction, *Environmental Science and Technology*, 46, 21, 2012, 11813-11820.
89. Gonçalves, M., Dabdub, D., Chang, W.L., Jorba, O., Baldasano, J.M., Impact of HONO sources on the performance of mesoscale air quality models, *Atmospheric Environment*, 54, 2012, 168-176.
90. Jørgensen, S., Gas-phase oxidation of cresol isomers initiated by OH or NO₃ radicals in the presence of NO₂, *International Journal of Chemical Kinetics*, 44, 3, 2012, 165-178.
91. Elshorbany, Y.F., Kleffmann, J., Hofzumahaus, A., Kurtenbach, R., Wiesen, P., Brauers, T., Bohn, B., Dorn, H.-P., Fuchs, H., Holland, F., Rohrer, F., Tillmann, R., Wegener, R., Wahner, A., Kanaya, Y., Yoshino, A., Nishida, S., Kajii, Y., Martinez, M., Kubistin, D., Harder, H., Lelieveld, J., Elste, T., Plass-Dolmer, C., Stange, G., Berresheim, H., Schurath, U., HOx budgets during HOxComp: A case study of HOx chemistry under NOx-limited conditions, *Journal of Geophysical Research: Atmospheres*, 117, 3, 2012.
92. Wong, K.W., Tsai, C., Lefer, B., Haman, C., Grossberg, N., Brune, W.H., Ren, X., Luke, W., Stutz, J., Daytime HONO vertical gradients during SHARP 2009 in Houston, TX, *Atmospheric Chemistry and Physics*, 12, 2, 2012, 635-652.
93. Clifford, G.M., Hadj-Aïssa, A., Healy, R.M., Mellouki, A., Muñoz, A., Wirtz, K., Martín Reviejo, M., Borrás, E., Wenger, J.C., The atmospheric photolysis of o-tolualdehyde, *Environmental Science and Technology*, 45, 22, 2011, 9649-9657.
94. Chen, J., Wenger, J.C., Venables, D.S., Near-ultraviolet absorption cross sections of nitrophenols and their potential influence on tropospheric oxidation capacity, *Journal of Physical Chemistry A*, 115, 44, 2011, 12235-12242.
95. Jessen, C.E., Gross, A., Kongsted, J., Jørgensen, S., A theoretical investigation of gas phase NO₃ initiated nitration of p-cresol, *Chemical Physics*, 389, 01-03, 2011, 39-46.
96. Sörgel, M., Regelin, E., Bozem, H., Diesch, J.-M., Drewnick, F., Fischer, H., Harder, H., Held, A., Hosaynali-Beygi, Z., Martinez, M., Zetzsch, C., Quantification of the unknown HONO daytime source and its relation to NO₂, *Atmospheric Chemistry and Physics*, 11, 20, 2011, 10433-10447.
97. Ren, X., Sanders, J.E., Rajendran, A., Weber, R.J., Goldstein, A.H., Pusede, S.E., Browne, E.C., Min, K.E., Cohen, R.C., A relaxed eddy accumulation system for measuring vertical fluxes of nitrous acid, *Atmospheric Measurement Techniques*, 4, 10, 2011, 2093-2103.

98. Sosedova, Y., Rouvière, A., Bartels-Rausch, T., Ammann, M., UVA/Vis-induced nitrous acid formation on polyphenolic films exposed to gaseous NO₂, *Photochemical and Photobiological Sciences*, 10, 10, 2011, 1680-1690.
99. Villena, G., Bejan, I., Kurtenbach, R., Wiesen, P., Kleffmann, J., Development of a new Long Path Absorption Photometer (LOPAP) instrument for the sensitive detection of NO₂ in the atmosphere, *Atmospheric Measurement Techniques*, 4, 8, 2011, 1663-1676.
100. Villena, G., Kleffmann, J., Kurtenbach, R., Wiesen, P., Lissi, E., Rubio, M.A., Croxatto, G., Rappenglück, B., Vertical gradients of HONO, NO_x and O₃ in Santiago de Chile, *Atmospheric Environment*, 45, 23, 2011, 3867-3873.
101. Sörgel, M., Trebs, I., Serafimovich, A., Moravek, A., Held, A., Zetzsch, C., Simultaneous HONO measurements in and above a forest canopy: Influence of turbulent exchange on mixing ratio differences, *Atmospheric Chemistry and Physics*, 11, 2, 2011, 841-855.
102. Wentzell, J.J.B., Schiller, C.L., Harris, G.W., Measurements of HONO during BAQS-met, *Atmospheric Chemistry and Physics*, 10, 24, 2010, 12285-12293.
103. Carter, W.P.L., Development of the SAPRC-07 chemical mechanism, *Atmospheric Environment*, 44, 40, 2010, 5324-5335.
104. Ren, X., Gao, H., Zhou, X., Crounse, J.D., Wennberg, P.O., Browne, E.C., LaFranchi, B.W., Cohen, R.C., McKay, M., Goldstein, A.H., Mao, J., Measurement of atmospheric nitrous acid at Bodgett forest during BEARPEX2007, *Atmospheric Chemistry and Physics*, 10, 13, 2010, 6283-6294.
105. Cheng, S., Song, P., Yang, S., Yin, H., Han, K. Fluorescence and solvent-dependent phosphorescence studies of o-nitrobenzaldehyde: A combined experimental and theoretical investigation, *Physical Chemistry Chemical Physics*, 12, 31, 2010, 9067-9074.
106. Elshorbany, Y., Barnes, I., Becker, K.H., Kleffmann, J., Wiesen, P., Sources and cycling of tropospheric hydroxyl radicals - An overview, *Zeitschrift für Physikalische Chemie*, 224, 07-08, 2010, 967-987.
107. Li, G., Lei, W., Zavala, M., Volkamer, R., Dusanter, S., Stevens, P., Molina, L.T., Impacts of HONO sources on the photochemistry in Mexico City during the MCMA-2006/MILAGO Campaign, *Atmospheric Chemistry and Physics*, 10, 14, 2010, 6551-6567.
108. Ganranoo, L., Mishra, S.K., Azad, A.K., Shigihara, A., Dasgupta, P.K., Breitbach, Z.S., Armstrong, D.W., Grudpan, K., Rappenglueck, B., Measurement of nitrophenols in rain and air by two-dimensional liquid chromatography-chemically active liquid core waveguide spectrometry, *Analytical Chemistry*, 82, 13, 2010, 5838-5843.
109. Laufs, S., Burgeth, G., Duttlinger, W., Kurtenbach, R., Maban, M., Thomas, C., Wiesen, P., Kleffmann, J., Conversion of nitrogen oxides on commercial photocatalytic dispersion paints, *Atmospheric Environment*, 44, 19, 2010, 2341-2349.
110. Monge, M.E., D'Anna, B., Mazri, L., Giroir-Fendler, A., Ammann, M., Donaldson, D.J., George, C., Light changes the atmospheric reactivity of soot, *Proceedings of the National Academy of Sciences of the United States of America*, 107, 15, 2010, 6605-6609.
111. Elshorbany, Y.F., Kurtenbach, R., Wiesen, P., Lissi, E., Rubio, M., Villena, G., Gramsch, E., Rickard, A.R., Pilling, M.J., Kleffmann, J., Oxidation capacity of the city air of Santiago, Chile, *Atmospheric Chemistry and Physics*, 9, 6, 2009, 2257-2273.
112. Yu, Y., Galle, B., Panday, A., Hodson, E., Prinn, R., Wang, S., Observations of high rates of NO₂-HONO conversion in the nocturnal atmospheric boundary layer in Kathmandu, Nepal, *Atmospheric Chemistry and Physics*, 9, 17, 2009, 6401-6415.
113. Wei, Q., Han, K.-L., Photochemistry of alkyl nitrites, nitro compounds and carboxylic acid: Dynamics of OH formation, *Environmental Chemistry Research Progress*, 2009, 87-111.
114. Qin, M., Xie, P., Su, H., Gu, J., Peng, F., Li, S., Zeng, L., Liu, J., Liu, W., Zhang, Y., An observational study of the HONO-NO₂ coupling at an urban site in Guangzhou City, South China, *Atmospheric Environment*, 43, 36, 2009, 5731-5742.
115. Olaguer, E.P., Rappenglück, B., Lefer, B., Stutz, J., Dibb, J., Griffin, R., Brune, W.H., Shauck, M., Buhr, M., Jeffries, H., Vizuete, W., Pinto, J.P., Deciphering the role of radical precursors during the second Texas air quality study, *Journal of the Air and Waste Management Association*, 59, 11, 2009, 1258-1277.
116. Zhang, N., Zhou, X., Shepson, P.B., Gao, H., Alaghmand, M., Stirr, B., Aircraft measurement of HONO vertical profiles over a forested region, *Geophysical Research Letters*, 36, 15, 2009,
117. Sarwar, G., Pinder, R.W., Appel, K.W., Mathur, R., Carlton, A.G., Examination of the impact of photoexcited NO₂ chemistry on regional air quality, *Atmospheric Environment*, 43, 40, 2009, 6383-6387.
118. Finlayson-Pitts, B.J., Reactions at surfaces in the atmosphere: Integration of experiments and theory as necessary (but not necessarily sufficient) for predicting the physical chemistry of aerosols, *Physical Chemistry Chemical Physics*, 11, 36, 2009, 7760-7779.
119. Cheng, S.-B., Zhou, C.-H., Yin, H.-M., Sun, J.-L., Han, K.-L., OH produced from o-nitrophenol photolysis: A combined experimental and theoretical investigation, *Journal of Chemical Physics*, 130, 23, 2009,
120. Cheng, S.B., Zhou, C.H., Yin, H.M., Sun, J.L., Han, K.L., Photolysis of o-Nitrobenzaldehyde in the gas phase: A new OH formation channel, *ChemPhysChem*, 10, 7, 2009, 1135-1142.

121. Vione, D., Maurino, V., Minero, C., Duncianu, M., Olariu, R.-I., Arsene, C., Sarakha, M., Mailhot, G., Assessing the transformation kinetics of 2- and 4-nitrophenol in the atmospheric aqueous phase. Implications for the distribution of both nitroisomers in the atmosphere, *Atmospheric Environment*, 43, 14, 2009, 2321-2327.
122. Nichols, B.R., Rapa, C., Costa, V., Hinrichs, R.Z., Heterogeneous and photochemical reactions of solid benzophenone-catechol films with NO₂, *Journal of Physical Chemistry C*, 113, 6, 2009, 2111-2119.
123. Mikuška, P., Motyka, K., Večeřa, Z. Determination of nitrous acid in air using wet effluent diffusion denuder-FIA technique, *Talanta*, 77, 2, 2008, 635-641.
124. Kamboures, M.A., Raff, J.D., Miller, Y., Phillips, L.F., Finlayson-Pitts, B.J., Gerber, R.B., Complexes of HNO₃ and NO₃ - with NO₂ and N₂O₄, and their potential role in atmospheric HONO formation, *Physical Chemistry Chemical Physics*, 10, 39, 2008, 6019-6032.
125. Wei, Q., Yin, H.-M., Sun, J.-L., Yue, X.-F., Han, K.-L., The dynamics of OH channel in the 266 and 355 nm photodissociation of 2-nitrophenol, *Chemical Physics Letters*, 463, 04-06, 2008, 340-344.
126. Sarwar, G., Roselle, S.J., Mathur, R., Appel, W., Dennis, R.L., Vogel, B., A comparison of CMAQ HONO predictions with observations from the Northeast Oxidant and Particle Study, *Atmospheric Environment*, 42, 23, 2008, 5760-5770.
127. Lammel, G., Feichter, J., Kurtenbach, R., Wiesen, P., Kreuzig, R., Müller, S., Zachmann, D., Knacker, T., Lamshöft, M., Schäffer, A., Endres, F., Goss, K.-U., Palm, W.-U., Scheringer, M., Environmental chemistry 2007 [Umweltchemie 2007], *Nachrichten aus der Chemie*, 56 3, 2008, 346-352.
128. Amoroso, A., Beine, H.J., Esposito, G., Perrino, C., Catrambone, M., Allegrini, I., Seasonal differences in atmospheric nitrous acid near Mediterranean urban areas, *Water, Air, and Soil Pollution*, 188, 01-04, 2008, 81-92.
129. Bejan, I., Barnes, I., Olariu, R., Zhou, S., Wiesen, P., Benter, T., Investigations on the gas-phase photolysis and OH radical kinetics of methyl-2-nitrophenols, *Physical Chemistry Chemical Physics*, 9, 42, 2007, 5686-5692.
130. Jagiella, S., Zabel, F., Reaction of phenylperoxy radicals with NO₂ at 298 K, *Physical Chemistry Chemical Physics*, 9, 36, 2007, 5036-5051.
131. Acker, K., Möller, D., Atmospheric variation of nitrous acid at different sites in Europe, *Environmental Chemistry*, 4, 4, 2007, 242-255.
132. Kleffmann, J., Daytime sources of nitrous acid (HONO) in the atmospheric boundary layer, *ChemPhysChem*, 8, 8, 2007, 1137-1144.
133. Nagaya, M., Kudoh, S., Nakata, M., Infrared spectrum and structure of the aci-nitro form of 2-nitrophenol in a low-temperature argon matrix, *Chemical Physics Letters*, 427, 01-03, 2006, 67.

Zhou, Sh., I. Barnes, T. Zhu, I. Bejan, T. Benter,

Kinetic study of the gas-phase reactions of OH and NO₃ radicals and O₃ with selected vinyl ethers, *Journal of Physical Chemistry A*, 110, 23, 7386 – 7392, 2006.

26 citări

134. Han, D., Cao, H., Li, M., Li, X., Zhang, S., He, M., Hu, J., Computational study on the mechanisms and rate constants of the Cl-initiated oxidation of methyl vinyl ether in the atmosphere, *Journal of Physical Chemistry A*, 119, 4, 2015, 719-727.
135. Kerdouci, J., Picquet-Varrault, B., Doussin, J.-F., Structure-activity relationship for the gas-phase reactions of NO₃ radical with organic compounds: Update and extension to aldehydes, *Atmospheric Environment*, 84, 2014, 363-372.
136. Han, D., Cao, H., Li, J., Li, M., He, M., Hu, J., Computational study on the mechanisms and rate constants of the OH-initiated oxidation of ethyl vinyl ether in atmosphere, *Chemosphere*, 111, 2014, 61-69.
137. Bravo, I., Rodríguez, A., Rodríguez, D., Diaz-De-Mera, Y., Notario, A., Aranda, A., Atmospheric chemistry and environmental assessment of inhalational fluroxene, *ChemPhysChem*, 14, 16, 2013, 3834-3842.
138. Yang, J., Miao, J., Li, X., Xu, W., Cycloaddition of ozone to allyl alcohol, acrylic acid and allyl aldehyde: A comparative DFT study, *Chemical Physics*, 415, 2013, 161-167.
139. De La Luz, A.P., Iuga, C., Alvarez-Idaboy, J.R., Ortiz, E., Vivier-Bunge, A., Tropospheric degradation of ethylene glycol monovinyl and divinyl ethers: A mechanistic and kinetic study, *International Journal of Quantum Chemistry*, 112, 21, 2012, 3525-3534.
140. Zhou, S., Barnes, I., Zhu, T., Benter, T., Kinetic study of gas-phase reactions of OH and NO₃ radicals and O₃ with iso-butyl and tert-butyl vinyl ethers, *Journal of Physical Chemistry A*, 116, 35, 2012, 8885-8892.
141. Han, D., Cao, H., Sun, Y., Sun, R., He, M., Mechanistic and kinetic study on the ozonolysis of n-butyl vinyl ether, i-butyl vinyl ether and t-butyl vinyl ether, *Chemosphere*, 88, 10, 2012, 1235-1240.
142. Lal, V., Khalizov, A.F., Lin, Y., Galvan, M.D., Connell, B.T., Zhang, R., Heterogeneous reactions of epoxides in acidic media, *Journal of Physical Chemistry A*, 116, 24, 2012, 6078-6090.
143. Han, D., Cao, H., Sun, Y., He, M., Mechanistic and kinetic study on the ozonolysis of ethyl vinyl ether and propyl vinyl ether, *Structural Chemistry*, 23, 2, 2012, 499-514.

144. Yang, X., Kiefer, J.H., Tranter, R.S., Thermal dissociation of ethylene glycol vinyl ether, *Physical Chemistry Chemical Physics*, 13, 48, 2011, 21288-21300.
145. Peirone, S.A., Aranguren Abrate, J.P., Taccone, R.A., Cometto, P.M., Lane, S.I., Kinetic study of the OH-initiated photo-oxidation of four unsaturated (allyl and vinyl) ethers under simulated atmospheric conditions, *Atmospheric Environment*, 45, 30, 2011, 5325-5331.
146. Vera, T., Muñoz, A., Ródenas, M., Vázquez, M., Borrás, E., Marqués, M., Mellouki, A., Treacy, J., Sidebottom, H., Atmospheric fate of hymexazol (5-methylisoxazol-3-ol): Simulation chamber studies. *Atmospheric Environment*, 45, 22, 2011, 3704-3710.
147. Tapia, A., Villanueva, F., Salgado, M.S., Cabañas, B., Martínez, E., Martín, P., Atmospheric degradation of 3-methylfuran: Kinetic and products study, *Atmospheric Chemistry and Physics*, 11, 7, 2011, 3227-3241.
148. Leather, K.E., McGillen, M.R., Ghalaieny, M., Shallcross, D.E., Percival, C.J., Temperature-dependent kinetics for the ozonolysis of selected chlorinated alkenes in the gas phase, *International Journal of Chemical Kinetics*, 43, 3, 2011, 120-129.
149. Kerdouci, J., Picquet-Varrault, B., Doussin, J.-F., Prediction of rate constants for gas-phase reactions of nitrate radical with organic compounds: A new structure-activity relationship, *ChemPhysChem*, 11, 18, 2010, 3909-3920.
150. Pimentel, A.S., Tyndall, G.S., Orlando, J.J., Hurley, M.D., Wallington, T.J., Andersen, M.P.S., Marshall, P., Dibble, T.S., Atmospheric chemistry of isopropyl formate and tert-butyl formate, *International Journal of Chemical Kinetics*, 42, 8, 2010, 479-498.
151. Wang, L., Ge, M., Wang, W., Kinetic study of the reactions of chlorine atoms with ethyl vinyl ether and propyl vinyl ether, *Chemical Physics Letters*, 473, 01-03, 2009, 30-33.
152. He, M., Wang, H., Sun, X., Zhang, Q., Wang, W., Theoretical study of OH-initiated atmospheric oxidation for propyl vinyl ether, *Journal of Theoretical and Computational Chemistry*, 8, 2, 2009, 261-277.
153. Zhou, S., Barnes, I., Zhu, T., Benter, T., Rate coefficients for the gas-phase reactions of OH and NO₃ radicals and O₃ with ethyleneglycol monovinyl ether, ethyleneglycol divinyl ether, and diethyleneglycol divinyl ether, *Journal of Physical Chemistry A*, 113, 5, 2009, 858-865.
154. Sun, X., He, M., Zhang, Q., Wang, W., Jalbout, A.F., Quantum chemical study on the atmospheric photooxidation of methyl vinyl ether (MVE), *Journal of Molecular Structure: THEOCHEM*, 868, 01-03, 2008, 87-93.
155. Long, B., Huang, M.-Q., Wang, Z.-Y., Zhang, W.-J., Theoretical studies on the kinetics and mechanisms of reactions for methyl vinyl ether and ozone, *Chinese Journal of Chemical Physics*, 21, 4, 2008, 324-332.
156. Pfrang, C., King, M.D., Braeckvelt, M., Canosa-Mas, C.E., Wayne, R.P., Gas-phase rate coefficients for reactions of NO₃, OH, O₃ and O(3P) with unsaturated alcohols and ethers: Correlations and structure-activity relations (SARs), *Atmospheric Environment*, 42, 13, 2008, 3018-3034.
157. Le Person, A., Eyglunent, G., Daële, V., Mellouki, A., Mu, Y., The near UV absorption cross-sections and the rate coefficients for the ozonolysis of a series of styrene-like compounds, *Journal of Photochemistry and Photobiology A: Chemistry*, 195, 1, 2008, 54-63.
158. Scarfoglierio, M., Picquet-Varrault, B., Salce, J., Durand-Jolibois, R., Doussin, J.-F., Kinetic and mechanistic study of the gas-phase reactions of a series of vinyl ethers with the nitrate radical, *Journal of Physical Chemistry A*, 110, 38, 2006, 11074-11081.
159. Zhou, S., Barnes, I., Zhu, T., Klotz, B., Albu, M., Bejan, I., Benter, T., Product study of the OH, NO₃, and O₃ initiated atmospheric photooxidation of propyl vinyl ether, *Environmental Science and Technology*, 40, 17, 2006, 5415-5421.

Zhou S., I. Barnes, T. Zhu, B. Klotz, I. Bejan, M. Albu, Th. Benter, Product study of the OH, NO₃, and O₃ initiated atmospheric photooxidation of propyl vinyl ether, *Environmental Science & Technology*, 40, 17, 5415-5421, 2006.

9 citări

160. Han, D., Cao, H., Li, M., Li, X., Zhang, S., He, M., Hu, J., Computational study on the mechanisms and rate constants of the Cl-initiated oxidation of methyl vinyl ether in the atmosphere, *Journal of Physical Chemistry A*, 119, 4, 2015, 719-727.
161. Han, D., Cao, H., Li, J., Li, M., He, M., Hu, J., Computational study on the mechanisms and rate constants of the OH-initiated oxidation of ethyl vinyl ether in atmosphere, *Chemosphere*, 111, 2014, 61-69.
162. De La Luz, A.P., Iuga, C., Alvarez-Idaboy, J.R., Ortiz, E., Vivier-Bunge, A., Tropospheric degradation of ethylene glycol monovinyl and divinyl ethers: A mechanistic and kinetic study, *International Journal of Quantum Chemistry*, 112, 21, 2012, 3525-3534.
163. Zhou, S., Barnes, I., Zhu, T., Benter, T., Kinetic study of gas-phase reactions of OH and NO₃ radicals and O₃ with iso-butyl and tert-butyl vinyl ethers, *Journal of Physical Chemistry A*, 116, 35, 2012, 8885-8892.
164. Han, D., Cao, H., Sun, Y., Sun, R., He, M., Mechanistic and kinetic study on the ozonolysis of n-butyl vinyl ether, i-butyl vinyl ether and t-butyl vinyl ether, *Chemosphere*, 88, 10, 2012, 1235-1240.

165. Peirone, S.A., Aranguren Abrate, J.P., Taccone, R.A., Cometto, P.M., Lane, S.I., Kinetic study of the OH-initiated photo-oxidation of four unsaturated (allyl and vinyl) ethers under simulated atmospheric conditions, *Atmospheric Environment*, 45, 30, 2011, 5325-5331.
166. He, M., Wang, H., Sun, X., Zhang, Q., Wang, W., Theoretical study of OH-initiated atmospheric oxidation for propyl vinyl ether, *Journal of Theoretical and Computational Chemistry*, 8, 2, 2009, 261-277.
167. Zhou, S., Barnes, I., Zhu, T., Benter, T., Rate coefficients for the gas-phase reactions of OH and NO₃ radicals and O₃ with ethyleneglycol monovinyl ether, ethyleneglycol divinyl ether, and diethyleneglycol divinyl ether, *Journal of Physical Chemistry A*, 113, 5, 2009, 858-865.
168. Sun, X., He, M., Zhang, Q., Wang, W., Jalbout, A.F., Quantum chemical study on the atmospheric photooxidation of methyl vinyl ether (MVE), *Journal of Molecular Structure: THEOCHEM*, 868, 01-03, 2008, 87-93.

Spittler, M., I. Barnes, I. Bejan, K.J. Brockmann, Th. Benter, K. Wirtz,
Reactions of NO₃ radicals with limonene and alpha-pinene: Product and SOA formation,
Atmospheric Environment, 40, Supl. 1, 116-127, 2006

39 citări

169. Waring, M.S., Wells, J.R., Volatile organic compound conversion by ozone, hydroxyl radicals, and nitrate radicals in residential indoor air: Magnitudes and impacts of oxidant sources, *Atmospheric Environment*, 106, 2015, 382-391.
170. Saheb, V., Rezaei, F., Hosseini, S.M.A., DFT and theoretical kinetics studies on the reaction of nitrate radical with α -pinene and β -pinene, *Computational and Theoretical Chemistry*, 1051, 2015, 123-128.
171. Browne, E.C., Wooldridge, P.J., Min, K.-E., Cohen, R.C., On the role of monoterpene chemistry in the remote continental boundary layer, *Atmospheric Chemistry and Physics*, 14, 3, 2014, 1225-1238.
172. Król, S., Namieśnik, J., Zabiegała, B., α -Pinene, 3-carene and d-limonene in indoor air of Polish apartments: The impact on air quality and human exposure, *Science of the Total Environment*, 468-469, 2014, 985-995.
173. Fry, J.L., Draper, D.C., Barsanti, K.C., Smith, J.N., Ortega, J., Winkler, P.M., Lawler, M.J., Brown, S.S., Edwards, P.M., Cohen, R.C., Lee, L., Secondary organic aerosol formation and organic nitrate yield from NO₃ oxidation of biogenic hydrocarbons, *Environmental Science and Technology*, 48, 20, 2014, 11944-11953.
174. Harrison, J.C., Wells, J.R., Investigation of terpinolene+ozone or terpinolene+nitrate radical reaction products using denuder/filter apparatus, *Atmospheric Environment*, 80, 2013, 524-532.
175. Song, C., Gyawali, M., Zaveri, R.A., Shilling, J.E., Arnott, W.P., Light absorption by secondary organic aerosol from α -pinene: Effects of oxidants, seed aerosol acidity, and relative humidity, *Journal of Geophysical Research: Atmospheres*, 118, 20, 2013, 11741-11749.
176. Perring, A.E., Pusede, S.E., Cohen, R.C., An observational perspective on the atmospheric impacts of alkyl and multifunctional nitrates on ozone and secondary organic aerosol, *Chemical Reviews*, 113, 8, 2013, 5848-5870.
177. Goliff, W.S., Stockwell, W.R., Lawson, C.V., The regional atmospheric chemistry mechanism, version 2, *Atmospheric Environment*, 68, 2013, 174-185.
178. Akagi, S.K., Yokelson, R.J., Burling, I.R., Meinardi, S., Simpson, I., Blake, D.R., McMeeking, G.R., Sullivan, A., Lee, T., Kreidenweis, S., Urbanski, S., Reardon, J., Griffith, D.W.T., Johnson, T.J., Weise, D.R., Measurements of reactive trace gases and variable O₃ formation rates in some South Carolina biomass burning plumes, *Atmospheric Chemistry and Physics*, 13, 3, 2013, 1141-1165.
179. Harrison, J.C., Wells, J.R., 2-Butoxyethanol and benzyl alcohol reactions with the nitrate radical: Rate coefficients and gas-phase products, *International Journal of Chemical Kinetics*, 44, 12, 2012, 778-788.
180. Fry, J.L., Sackinger, K., Model investigation of NO₃ secondary organic aerosol (SOA) source and heterogeneous organic aerosol (OA) sink in the western United States, *Atmospheric Chemistry and Physics*, 12, 18, 2012, 8797-8811.
181. Eddingsaas, N.C., Loza, C.L., Yee, L.D., Chan, M., Schilling, K.A., Chhabra, P.S., Seinfeld, J.H., Wennberg, P.O., α -pinene photooxidation under controlled chemical conditions-Part 2: SOA yield and composition in low-and high-NO_x environments, *Atmospheric Chemistry and Physics*, 12, 16, 2012, 7413-7427.
182. Pratt, K.A., Mielke, L.H., Shepson, P.B., Bryan, A.M., Steiner, A.L., Ortega, J., Daly, R., Helmig, D., Vogel, C.S., Griffith, S., Dusanter, S., Stevens, P.S., Alaghmand, M., Contributions of individual reactive biogenic volatile organic compounds to organic nitrates above a mixed forest, *Atmospheric Chemistry and Physics*, 12, 21, 2012, 10125-10143.
183. Kwan, A.J., Chan, A.W.H., Ng, N.L., Kjaergaard, H.G., Seinfeld, J.H., Wennberg, P.O., Peroxy radical chemistry and OH radical production during the NO₃-initiated oxidation of isoprene, *Atmospheric Chemistry and Physics*, 12, 16, 2012, 7499-7515.
184. Brown, S.S., Stutz, J., Nighttime radical observations and chemistry, *Chemical Society Reviews*, 41, 19, 2012, 6405-6447.

185. Carslaw, N., Mota, T., Jenkin, M.E., Barley, M.H., McFiggans, G., A Significant role for nitrate and peroxide groups on indoor secondary organic aerosol, *Environmental Science and Technology*, 46, 17, 2012, 9290-9298.
186. Couvidat, F., Debry, É., Sartelet, K., Seigneur, C., A hydrophilic/hydrophobic organic (H₂O) aerosol model: Development, evaluation and sensitivity analysis, *Journal of Geophysical Research: Atmospheres*, 117, 10, 2012.
187. Perraud, V., Bruns, E.A., Ezell, M.J., Johnson, S.N., Yu, Y., Alexander, M.L., Zelenyuk, A., Imre, D., Chang, W.L., Dabdub, D., Pankow, J.F., Finlayson-Pitts, B.J., Nonequilibrium atmospheric secondary organic aerosol formation and growth, *Proceedings of the National Academy of Sciences of the United States of America*, 109, 8, 2012, 2836-2841.
188. Jiang, L., Xu, Y., Yin, B., Bai, Z., Theoretical study on the reaction mechanism of ozone addition to the double bonds of keto-limonene, *Journal of Environmental Sciences*, 24, 1, 2012, 147-151.
189. Fry, J.L., Kiendler-Scharr, A., Rollins, A.W., Brauers, T., Brown, S.S., Dorn, H.-P., Dubé, W.P., Fuchs, H., Mensah, A., Rohrer, F., Tillmann, R., Wahner, A., Wooldridge, P.J., Cohen, R.C., SOA from limonene: Role of NO₃ in its generation and degradation, *Atmospheric Chemistry and Physics*, 11, 8, 2011, 3879-3894.
190. Harrison, J.C., Ham, J.E., Rate constants for the gas-phase reactions of nitrate radicals with geraniol, citronellol, and dihydromyrcenol, *International Journal of Chemical Kinetics*, 42, 11, 2010, 669-675.
191. Perraud, V., Bruns, E.A., Ezell, M.J., Johnson, S.N., Greaves, J., Finlayson-Pitts, B.J., Identification of organic nitrates in the NO₃ radical initiated oxidation of α -Pinene by atmospheric pressure chemical ionization mass spectrometry, *Environmental Science and Technology*, 44, 15, 2010, 5887-5893.
192. Choi, D.H., Kang, D.H., Kim, S.S., Yeo, M.S., Kim, K.W., The impact of a non-adhesive floating installation method on emissions and indoor concentrations of VOCs, *Indoor and Built Environment*, 19, 4, 2010, 435-443.
193. Bruns, E.A., Perraud, V., Greaves, J., Finlayson-Pitts, B.J., Atmospheric solids analysis probe mass spectrometry: A new approach for airborne particle analysis, *Analytical Chemistry*, 82, 14, 2010, 5922-5927.
194. Xie, S., Tian, X. Formation mechanism of secondary organic aerosols from the reaction of volatile and semi-volatile compounds, *Progress in Chemistry*, 22, 4, 2010, 727-733.
195. Bruns, E.A., Perraud, V., Zelenyuk, A., Ezell, M.J., Johnson, S.N., Yu, Y., Imre, D., Finlayson-Pitts, B.J., Alexander, M.L., Comparison of FTIR and particle mass spectrometry for the measurement of particulate organic nitrates, *Environmental Science and Technology*, 44, 3, 2010, 1056-1061.
196. Pan, X., Underwood, J.S., Xing, J.-H., Mang, S.A., Nizkorodov, S.A., Photodegradation of secondary organic aerosol generated from limonene oxidation by ozone studied with chemical ionization mass spectrometry, *Atmospheric Chemistry and Physics*, 9, 12, 2009, 3851-3865.
197. Hallquist, M., Wenger, J.C., Baltensperger, U., Rudich, Y., Simpson, D., Claeys, M., Dommen, J., Donahue, N.M., George, C., Goldstein, A.H., Hamilton, J.F., Herrmann, H., Hoffmann, T., Iinuma, Y., Jang, M., Jenkin, M.E., Jimenez, J.L., Kiendler-Scharr, A., Maenhaut, W., McFiggans, G., Mentel, T.F., Monod, A., Prévôt, A.S.H., Seinfeld, J.H., Surratt, J.D., Szmigielski, R., Wildt, J., The formation, properties and impact of secondary organic aerosol: Current and emerging issues, *Atmospheric Chemistry and Physics*, 9, 14, 2009, 5155-5236.
198. Harrison, J.C., Ham, J.E., β -ionone reactions with the nitrate radical: Rate constant and gas-phase products, *International Journal of Chemical Kinetics*, 41, 10, 2009, 629-641.
199. Jiang, L., Wang, W., Xu, Y.-S., Theoretical investigation of the NO₃ radical addition to double bonds of limonene, *International Journal of Molecular Sciences*, 10, 9, 2009, 3743-3754.
200. Fry, J.L., Kiendler-Scharr, A., Rollins, A.W., Wooldridge, P.J., Brown, S.S., Fuchs, H., Dubé, W., Mensah, A., Dal Maso, M., Tillmann, R., Dorn, H.-P., Brauers, T., Cohen, R.C., Organic nitrate and secondary organic aerosol yield from NO₃ oxidation of β -pinene evaluated using a gas-phase kinetics/aerosol partitioning model, *Atmospheric Chemistry and Physics*, 9, 4, 2009, 1431-1449.
201. Mang, S.A., Walser, M.L., Pan, X., Xing, J.-H., Bateman, A.P., Underwood, J.S., Gomez, A.L., Park, J., Nizkorodov, S.A., Photochemistry of secondary organic aerosol formed from oxidation of monoterpenes, *ACS Symposium Series*, 1005, 2009, 91-109.
202. Jones, B.T., Ham, J.E., α -Terpineol reactions with the nitrate radical: Rate constant and gas-phase products, *Atmospheric Environment*, 42, 27, 2008, 6689-6698.
203. Zhao, J., Zhang, R., Chapter 10 Theoretical Investigation of Atmospheric Oxidation of Biogenic Hydrocarbons: A Critical Review, *Advances in Quantum Chemistry*, 55, 2008, 177-213.
204. Kroll, J.H., Seinfeld, J.H., Chemistry of secondary organic aerosol: Formation and evolution of low-volatility organics in the atmosphere, *Atmospheric Environment*, 42, 16, 2008, 3593-3624.
205. Svendby, T.M., Lazaridis, M., Tørseth, K., Temperature dependent secondary organic aerosol formation from terpenes and aromatics, *Journal of Atmospheric Chemistry*, 59, 1, 2008, 25-46.
206. Grote, R., Niinemets, Ü. Modeling volatile isoprenoid emissions - A story with split ends *Plant Biology*, 10, 1, 2008, 8-28.
207. Hoyle, C.R., Berntsen, T., Myhre, G., Isaksen, I.S.A., Secondary organic aerosol in the global aerosol - Chemical transport model Oslo CTM2, *Atmospheric Chemistry and Physics*, 7, 21, 2007, 5675-5694.

Bejan, I., I. Barnes, R. Olariu, Sh. Zhou, P. Wiesen, Th. Benter,
Investigations on the gas-phase photolysis and OH radical kinetics of methyl-2-nitrophenols,
Physical Chemistry Chemical Physics, 9, 5686-5692, 2007.

12 citări

208. Irei, S., Rudolph, J., Huang, L., Auld, J., Collin, F., Hastie, D., Laboratory studies of carbon kinetic isotope effects on the production mechanism of particulate phenolic compounds formed by toluene photooxidation: A tool to constrain reaction pathways, *Journal of Physical Chemistry A*, 119, 1, 2015, 5-13.
209. Slade, J.H., Knopf, D.A., Multiphase OH oxidation kinetics of organic aerosol: The role of particle phase state and relative humidity, *Geophysical Research Letters*, 41, 14, 2014, 5297-5306.
210. Lauraguais, A., Coeur-Tourneur, C., Cassez, A., Deboudt, K., Fourmentin, M., Choël, M., Atmospheric reactivity of hydroxyl radicals with guaiacol (2-methoxyphenol), a biomass burning emitted compound: Secondary organic aerosol formation and gas-phase oxidation products, *Atmospheric Environment*, 86, 2014, 155-163.
211. Olariu, R.I., Barnes, I., Bejan, I., Arsene, C., Vione, D., Klotz, B., Becker, K.H., FT-IR product study of the reactions of NO₃ radicals with ortho -, meta -, and para-cresol, *Environmental Science and Technology*, 47, 14, 2013, 7729-7738.
212. Bejan, I., Schürmann, A., Barnes, I., Benter, T., Kinetics of the gas-phase reactions of OH radicals with a series of trimethylphenols, *International Journal of Chemical Kinetics*, 44, 2, 2012, 117-124.
213. Chen, J., Wenger, J.C., Venables, D.S., Near-ultraviolet absorption cross sections of nitrophenols and their potential influence on tropospheric oxidation capacity, *Journal of Physical Chemistry A*, 115, 44, 2011.
214. Ozel, M.Z., Ward, M.W., Hamilton, J.F., Lewis, A.C., Raventos-Duran, T., Harrison, R.M., Analysis of organic nitrogen compounds in Urban aerosol samples using GCxGC-TOF/MS, *Aerosol Science and Technology*, 44, 2, 2010, 109-116.
215. Hallquist, M., Wenger, J.C., Baltensperger, U., Rudich, Y., Simpson, D., Claeys, M., Dommen, J., Donahue, N.M., George, C., Goldstein, A.H., Hamilton, J.F., Herrmann, H., Hoffmann, T., Iinuma, Y., Jang, M., Jenkin, M.E., Jimenez, J.L., Kiendler-Scharr, A., Maenhaut, W., McFiggans, G., Mentel, T.F., Monod, A., Prévôt, A.S.H., Seinfeld, J.H., Surratt, J.D., Szmigielski, R., Wildt, J., The formation, properties and impact of secondary organic aerosol: Current and emerging issues, *Atmospheric Chemistry and Physics*, 9, 14, 2009, 5155-5236.
216. Qin, M., Xie, P., Su, H., Gu, J., Peng, F., Li, S., Zeng, L., Liu, J., Liu, W., Zhang, Y., An observational study of the HONO-NO₂ coupling at an urban site in Guangzhou City, South China, *Atmospheric Environment*, 43, 36, 2009, 5731-5742.
217. Monks, P.S., Granier, C., Fuzzi, S., Stohl, A., Williams, M.L., Akimoto, H., Amann, M., Baklanov, A., Baltensperger, U., Bey, I., Blake, N., Blake, R.S., Carslaw, K., Cooper, O.R., Dentener, F., Fowler, D., Fragkou, E., Frost, G.J., Generoso, S., Ginoux, P., Grewe, V., Guenther, A., Hansson, H.C., Henne, S., Hjorth, J., Hofzumahaus, A., Huntrieser, H., Isaksen, I.S.A., Jenkin, M.E., Kaiser, J., Kanakidou, M., Klimont, Z., Kulmala, M., Laj, P., Lawrence, M.G., Lee, J.D., Liousse, C., Maione, M., McFiggans, G., Metzger, A., Mieville, A., Moussiopoulos, N., Orlando, J.J., O'Dowd, C.D., Palmer, P.I., Parrish, D.D., Petzold, A., Platt, U., Pöschl, U., Prévôt, A.S.H., Reeves, C.E., Reimann, S., Rudich, Y., Sellegri, K., Steinbrecher, R., Simpson, D., ten Brink, H., Theloke, J., van der Werf, G.R., Vautard, R., Vestreng, V., Vlachokostas, Ch., von Glasow, R., Atmospheric composition change - global and regional air quality, *Atmospheric Environment*, 43, 33, 2009, 5268-5350.
218. Böhnhardt, A., Kühne, R., Ebert, R.-U., Schürmann, G., Indirect photolysis of organic compounds: Prediction of OH reaction rate constants through molecular orbital calculations, *Journal of Physical Chemistry A*, 112, 45, 2008, 11391-11399.
219. Henry, F., Coeur-Tourneur, C., Ledoux, F., Tomas, A., Menu, D., Secondary organic aerosol formation from the gas phase reaction of hydroxyl radicals with m-, o- and p-cresol, *Atmospheric Environment*, 42, 13, 2008, 3035-3045.

Blanco M., I. Bejan, I. Barnes, P. Wiesen, M.A. Teruel,
Kinetics of the Reactions of Chlorine Atoms with Selected Fluoroacetates under Atmospheric
Pressure and 298 K,
Chemical Physics Letters, 453, 18-23, 2008

16 citări

220. Mishra, B.K., Computational study on kinetics and mechanism of Cl-initiated hydrogen abstraction of methyl fluoroacetate, *Journal of Fluorine Chemistry*, 172, 2015, 74-79.
221. Deka, R.C., Mishra, B.K., Theoretical investigation of the atmospheric chemistry of methyl difluoroacetate: Reaction with Cl atoms and fate of alkoxy radical at 298 K, *Structural Chemistry*, 25, 5, 2014, 1475-1482.
222. Mishra, B.K., Deka, R.C., A theoretical investigation on kinetics, mechanism, and thermochemistry of the gas-phase reactions of methyl fluoroacetate with OH radicals and fate of alkoxy radical, *Journal of Physical Chemistry A*, 118, 38, 2014, 8779-8786.

223. Gour, N.K., Deka, R.C., Singh, H.J., Mishra, B.K., A computational perspective on mechanism and kinetics of the reactions of $\text{CF}_3\text{C}(\text{O})\text{OCH}_2\text{CF}_3$ with OH radicals and Cl atoms at 298 K, *Journal of Fluorine Chemistry*, 160, 2014, 64-71.
224. Zhu, P., Ai, L.-L., Wang, H., Liu, J.-Y., Theoretical studies on mechanism and kinetics of the hydrogen-abstraction reaction of $\text{CF}_2\text{HCOOCH}_3$ with OH radicals, *Computational and Theoretical Chemistry*, 1029, 2014, 91-98.
225. Tovar, C.M., Teruel, M.A., Gas-phase kinetics of OH radicals reaction with a series of fluorinated acrylates and methacrylates at atmospheric pressure and 298K, *Atmospheric Environment*, 94, 2014, 489-495.
226. Mishra, B.K., Theoretical investigation on the atmospheric fate of the $\text{CF}_3\text{C}(\text{O})\text{OCH}(\text{O})\text{CF}_3$ radical: Alpha-ester rearrangement vs. oxidation, *RSC Advances*, 4, 32, 2014, 16759-16764.
227. Mishra, B.K., Theoretical investigation on the atmospheric fate of $\text{CF}_3\text{C}(\text{O})\text{OCH}_2\text{O}$ radical: alpha-ester rearrangement vs oxidation at 298 K, *Journal of Molecular Modeling*, 20, 9, 2014, 1-7.
228. Mishra, B.K., Chakrabarty, A.K., Deka, R.C., A theoretical investigation on the kinetics and reactivity of the gas-phase reactions of ethyl chlorodifluoroacetate with OH radical and Cl atom at 298 K, *Structural Chemistry*, 25, 2, 2014, 463-470.
229. Mishra, B.K., Singh, H.J., Tiwari, L., Theoretical investigation on mechanism and kinetics of the Cl-initiated hydrogen abstraction reactions of ethyl trifluoroacetate at 298 K, *Journal of Molecular Modeling*, 20, 10, 2014,
230. Mishra, B.K., Chakrabarty, A.K., Deka, R.C., Theoretical investigation of the gas-phase reactions of $\text{CF}_2\text{C}(\text{Cl})\text{C}(\text{O})\text{OCH}_3$ with the hydroxyl radical and the chlorine atom at 298 K, *Journal of Molecular Modeling*, 19, 8, 2013, 3263-3270.
231. Blanco, M.B., Rivela, C., Teruel, M.A., Tropospheric degradation of 2,2,2 trifluoroethyl butyrate: Kinetic study of their reactions with OH radicals and Cl atoms at 298 K, *Chemical Physics Letters*, 578, 2013, 33-37.
232. Chakrabarty, A.K., Mishra, B.K., Bhattacharjee, D., Deka, R.C., Mechanistic and kinetics study of the gas phase reactions of methyltrifluoroacetate with OH radical and Cl atom, *Molecular Physics*, 111, 7, 2013, 860-867.
233. Bravo, I., Díaz-De-Mera, Y., Aranda, A., Moreno, E., Nutt, D.R., Marston, G., Radiative efficiencies for fluorinated esters: Indirect global warming potentials of hydrofluoroethers, *Physical Chemistry Chemical Physics*, 13, 38, 2011, 17185-17193.
234. Blanco, M.B., Barnes, I., Teruel, M.A., Product distribution in the Cl-initiated photooxidation of $\text{CF}_3\text{C}(\text{O})\text{OCH}_2\text{CF}_3$, *Journal of Physical Organic Chemistry*, 23, 10, 2010, 950-954.
235. Blanco, M.B., Bejan, I., Barnes, I., Wiesen, P., Teruel, M.A., Atmospheric photooxidation of fluoroacetates as a source of fluorocarboxylic acids, *Environmental Science and Technology*, 44, 7, 2010, 2354-2359.

Zhou S., I. Barnes, T. Zhu, I. Bejan, M. Albu, Th. Benter,
Atmospheric Chemistry of Acetylacetone,
Environmental Science & Technology, 42(21), 7905–7910, 2008

7 citări

236. Messaadia, L., El Dib, G., Ferhati, A., Chakir, A., UV-visible spectra and gas-phase rate coefficients for the reaction of 2,3-pentanedione and 2,4-pentanedione with OH radicals, *Chemical Physics Letters*, 626, 2015, 73-79.
237. Peeters, J., Müller, J.-F., Stavrou, T., Nguyen, V.S., Hydroxyl radical recycling in isoprene oxidation driven by hydrogen bonding and hydrogen tunneling: The upgraded LIM1 mechanism, *Journal of Physical Chemistry A*, 118, 38, 2014, 8625-8643.
238. Epstein, S.A., Tapavicza, E., Furche, F., Nizkorodov, S.A., Direct photolysis of carbonyl compounds dissolved in cloud and fog droplets, *Atmospheric Chemistry and Physics*, 13, 18, 2013, 9461-9477.
239. Zhou, S., Barnes, I., Zhu, T., Benter, T., Kinetic study of gas-phase reactions of OH and NO₃ radicals and O₃ with iso-butyl and tert -butyl vinyl ethers, *Journal of Physical Chemistry A*, 116, 35, 2012, 8885-8892.
240. Profeta, L.T.M., Sams, R.L., Johnson, T.J., Williams, S.D., Quantitative infrared intensity studies of vapor-phase glyoxal, methylglyoxal, and 2,3-butanedione (diacetyl) with vibrational assignments, *Journal of Physical Chemistry A*, 115, 35, 2011, 9886-9900.
241. Yang, B., Li, W., Huang, X., Du, Z., Synthesis and structural analysis of beryllium acetylacetonate. Beijing Huagong Daxue Xuebao (Ziran Kexueban)/Journal of Beijing University of Chemical Technology (Natural Science Edition), 37, 4, 2010, 40-43.
242. Axson, J.L., Takahashi, K., De Haan, D.O., Vaida, V., Gas-phase water-mediated equilibrium between methylglyoxal and its geminal diol, *Proceedings of the National Academy of Sciences of the United States of America*, 107, 15, 2010, 6687-6692.

Blanco, M., I. Bejan, I. Barnes, P. Wiesen and M.A. Teruel,

17 citări

243. Sun, Y., Cao, H., Han, D., Li, J., He, M., Reactions of n-butyl acrylate and ethyl methacrylate with ozone in the gas phase, *Computational and Theoretical Chemistry*, 1039, 2014, 33-39.
244. Blanco, M.B., Bejan, I., Barnes, I., Wiesen, P., Teruel, M.A., Products and mechanism of the reactions of OH radicals and Cl atoms with methyl methacrylate ($\text{CH}_2=\text{C}(\text{CH}_3)\text{C}(\text{O})\text{OCH}_3$) in the presence of NO_x, *Environmental Science and Technology*, 48, 3, 2014, 1692-1699.
245. Tovar, C.M., Teruel, M.A., Gas-phase kinetics of OH radicals reaction with a series of fluorinated acrylates and methacrylates at atmospheric pressure and 298K, *Atmospheric Environment*, 94, 2014, 489-495.
246. Moreno, A., Gallego-Iniesta, M.P., Taccone, R., Martín, M.P., Cabañas, B., Salgado, M.S., FTIR gas-phase kinetic study on the reactions of some acrylate esters with OH radicals and Cl atoms, *Environmental Science and Pollution Research*, 21, 19, 2014, 11541-11551.
247. Gibilisco, R.G., Bejan, I., Barnes, I., Wiesen, P., Teruel, M.A., Rate coefficients at 298K and 1atm for the tropospheric degradation of a series of C6, C7 and C8 biogenic unsaturated alcohols initiated by Cl atoms, *Atmospheric Environment*, 94, 2014, 564-572.
248. Sun, Y., Cao, H., Han, D., Li, J., He, M., Atmospheric ozonolysis study of methyl acrylate and methyl 3-methyl acrylate, *Structural Chemistry*, 24, 5, 2013, 1451-1460.
249. Gaona Colmán, E., Blanco, M.B., Barnes, I., Teruel, M.A., Gas phase kinetics for the ozonolysis of n-butyl methacrylate, ethyl crotonate and vinyl propionate under atmospheric conditions, *Chemical Physics Letters*, 579, 2013, 11-15.
250. Mandal, D., Sahu, C., Bagchi, S., Das, A.K., Kinetics and mechanism of the tropospheric oxidation of vinyl acetate initiated by OH radical: A theoretical study, *Journal of Physical Chemistry A*, 117, 18, 2013, 3739-3750.
251. Zhao, Y., Sun, H., Wang, R., Gao, F., Theoretical study on the reaction mechanism of vinyl acetate with OH radicals in the atmosphere, *Canadian Journal of Chemistry*, 91, 4, 2013, 241-247.
252. Blanco, M.B., Bejan, I., Barnes, I., Wiesen, P., Teruel, M.A., Atmospheric oxidation of vinyl and allyl acetate: Product distribution and mechanisms of the OH-initiated degradation in the presence and absence of NO_x, *Environmental Science and Technology*, 46, 16, 2012, 8817-8825.
253. Teruel, M.A., Benitez-Villalba, J., Caballero, N., Blanco, M.B., Gas-phase oxidation of methyl crotonate and ethyl crotonate. Kinetic study of their reactions toward OH radicals and Cl atoms, *Journal of Physical Chemistry A*, 116, 24, 2012, 6127-6133.
254. Blanco, M.B., Teruel, M.A., Atmospheric photodegradation of ethyl vinyl ketone and vinyl propionate initiated by OH radicals, *Chemical Physics Letters*, 502, 04-06, 2011, 159-162.
255. Liang, P., Mu, Y., Daële, V., Mellouki, A., Rate coefficients for reactions of OH and Cl with esters, *ChemPhysChem*, 11, 18, 2010, 4097-4102.
256. Blanco, M.B., Bejan, I., Barnes, I., Wiesen, P., Teruel, M.A., FTIR product distribution study of the Cl and OH initiated degradation of methyl acrylate at atmospheric pressure, *Environmental Science and Technology*, 44, 18, 2010, 7031-7036.
257. Bernard, F., Eyglunent, G., Daële, V., Mellouki, A., Kinetics and products of gas-phase reactions of ozone with methyl methacrylate, methyl acrylate, and ethyl acrylate, *Journal of Physical Chemistry A*, 114, 32, 2010, 8376-8383.
258. Picquet-Varrault, B., Scarfoglieri, M., Doussin, J.-F., Atmospheric reactivity of vinyl acetate: Kinetic and mechanistic study of its gas-phase oxidation by OH, O₃, and NO₃, *Environmental Science and Technology*, 44, 12, 2010, 4615-4621.
259. Blanco, M.B., Bejan, I., Barnes, I., Wiesen, P., Teruel, M.A., Temperature-dependent rate coefficients for the reactions of Cl atoms with methyl methacrylate, methyl acrylate and butyl methacrylate at atmospheric pressure, *Atmospheric Environment*, 43, 38, 2009, 5996-6002.

Kourtchev I., I. Bejan, J.R. Sodeau, J.C. Wenger,

Gas phase reaction of (E)-β-farnesene with ozone: Rate coefficient and carbonyl products, Atmospheric Environment, 43(20), 3182-3190, 2009.

11 citări

260. Ham, J.E., Rate constants for the gas-phase reactions of ozone and nitrate radicals with the sesquiterpenes: Valencene and farnesol, *International Journal of Chemical Kinetics*, 45, 8, 2013, 508-514.
261. Zhou, S., Wenger, J.C., Kinetics and products of the gas-phase reactions of acenaphthylene with hydroxyl radicals, nitrate radicals and ozone, *Atmospheric Environment*, 75, 2013, 103-112.
262. Jaoui, M., Kleindienst, T.E., Docherty, K.S., Lewandowski, M., Offenberg, J.H., Secondary organic aerosol formation from the oxidation of a series of sesquiterpenes: α-cedrene, β-caryophyllene, α-humulene and α-farnesene with O₃, OH and NO₃ radicals, *Environmental Chemistry*, 10, 3, 2013, 178-193.

263. Zhou, S., Wenger, J.C., Kinetics and products of the gas-phase reactions of acenaphthene with hydroxyl radicals, nitrate radicals and ozone, *Atmospheric Environment*, 72, 2013, 97-104.
264. Ghalaieny, M., Bacak, A., McGillen, M., Martin, D., Knights, A.V., O'Doherty, S., Shallcross, D.E., Percival, C.J., Determination of gas-phase ozonolysis rate coefficients of a number of sesquiterpenes at elevated temperatures using the relative rate method, *Physical Chemistry Chemical Physics*, 14, 18, 2012, 6596-6602.
265. Kourtchev, I., Bejan, I., Sodeau, J.R., Wenger, J.C., Gas phase reaction of OH radicals with (E)- β -farnesene at 296 ± 2 K: Rate coefficient and carbonyl products, *Atmospheric Environment*, 46, 2012, 338-345.
266. McGillen, M.R., Ghalaieny, M., Percival, C.J., Determination of gas-phase ozonolysis rate coefficients of C8-14 terminal alkenes at elevated temperatures using the relative rate method, *Physical Chemistry Chemical Physics*, 13, 23, 2011, 10965-10969.
267. Kahnt, A., Iinuma, Y., Böge, O., Mutzel, A., Herrmann, H., Denuder sampling techniques for the determination of gas-phase carbonyl compounds: A comparison and characterisation of in situ and ex situ derivatisation methods, *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, 879, 17-18, 2011, 1402-1411.
268. Kim, D., Stevens, P.S., Hites, R.A., Rate constants for the gas-phase reactions of OH and O₃ with β -ocimene, β -myrcene, and α - and β -farnesene as a function of temperature, *Journal of Physical Chemistry A*, 115, 4, 2011, 500-506.
269. Arneth, A., Niinemets, U., Induced BVOCs: how to bug our models?, *Trends in Plant Science*, 15, 3, 2010, 118-125.
270. Bouvier-Brown, N.C., Goldstein, A.H., Gilman, J.B., Kuster, W.C., De Gouw, J.A., In-situ ambient quantification of monoterpenes, sesquiterpenes and related oxygenated compounds during BEARPEX 2007: Implications for gas- And particle-phase chemistry, *Atmospheric Chemistry and Physics*, 9, 15, 2009, 5505-5518.

Villanueva F., B. Cabañas, E. Monedero, S. Salgado, I. Bejan, P. Martin, Degradation of Alkylfurans with Chlorine Atoms: Product and Mechanistic Study, *Atmospheric Environment*, 43(17), 2804-2813, 2009

9 citări

271. Colmenar, I., González, S., Jiménez, E., Martín, P., Salgado, S., Cabañas, B., Albaladejo, J., UV absorption cross sections between 290 and 380nm of a series of furanaldehydes: Estimation of their photolysis lifetimes, *Atmospheric Environment*, 103, 2015, 1-6.
272. Krause, T., Tubbesing, C., Benzing, K., Schöler, H.F., Model reactions and natural occurrence of furans from hypersaline environments. *Biogeosciences*, 11, 10, 2014, 2871-2882.
273. Alwe, H.D., Walavalkar, M.P., Sharma, A., Dhanya, S., Naik, P.D., Tropospheric oxidation of cyclic unsaturated ethers in the day-time: Comparison of the reactions with Cl, OH and O₃ based on the determination of their rate coefficients at 298K, *Atmospheric Environment*, 82, 2014, 113-120.
274. Notario, A., Bravo, I., Adame, J.A., Díaz-de-Mera, Y., Aranda, A., Rodríguez, A., Rodríguez, D., Variability of oxidants (OX=O₃+NO₂), and preliminary study on ambient levels of ultrafine particles and VOCs, in an important ecological area in Spain, *Atmospheric Research*, 128, 2013, 35-45.
275. Villanueva, F., Notario, A., Adame, J.A., Millán, M.C., Mabilia, R., Albaladejo, J., A preliminary study on ambient levels of carbonyls, benzene, toluene and xylene in the south-west of the Iberian Peninsula (Huelva coast), Spain, *Environmental Technology (United Kingdom)*, 34, 3, 2013, 289-299.
276. Colmenar, I., Cabañas, B., Martínez, E., Salgado, M.S., Martín, P., Atmospheric fate of a series of furanaldehydes by their NO₃ reactions, *Atmospheric Environment*, 54, 2012, 177-184.
277. Tapia, A., Villanueva, F., Salgado, M.S., Cabañas, B., Martínez, E., Martín, P., Atmospheric degradation of 3-methylfuran: Kinetic and products study, *Atmospheric Chemistry and Physics*, 11, 7, 2011, 3227-3241.
278. Zhang, W., Du, B., Products and mechanism of the Cl-initiated atmospheric oxidation of furan: A theoretical study, *Computational and Theoretical Chemistry*, 963, 02-03, 2011, 348-356.
279. Huber, S.G., Wunderlich, S., Schöler, H.F., Williams, J., Natural abiotic formation of furans in soil, *Environmental Science and Technology*, 44, 15, 2010, 5799-5804.

Blanco, M., I. Bejan, I. Barnes, P. Wiesen, M.A. Teruel, The Cl-initiated oxidation of CH₃C(O)OCH=CH₂, CH₃C(O)OCH₂CH=CH₂, and CH₂=CHC(O)O(CH₂)₃CH₃ in the troposphere, *Environmental Science and Pollution Research*, 16, 6, 641-648, 2009

14 citări

280. Han, D., Cao, H., Li, M., Li, X., Zhang, S., He, M., Hu, J., Computational study on the mechanisms and rate constants of the Cl-initiated oxidation of methyl vinyl ether in the atmosphere, *Journal of Physical Chemistry A*, 119, 4, 2015, 719-727.
281. Sun, Y., Cao, H., Han, D., Li, J., He, M., Reactions of n-butyl acrylate and ethyl methacrylate with ozone in the gas phase, *Computational and Theoretical Chemistry*, 1039, 2014, 33-39.

282. Blanco, M.B., Bejan, I., Barnes, I., Wiesen, P., Teruel, M.A., Products and mechanism of the reactions of OH radicals and Cl atoms with methyl methacrylate ($\text{CH}_2=\text{C}(\text{CH}_3)\text{C}(\text{O})\text{OCH}_3$) in the presence of NO_x , *Environmental Science and Technology*, 48, 3, 2014, 1692-1699.
283. Li, J., Cao, H., Han, D., Li, M., Li, X., He, M., Ma, S., Computational study on the mechanism and kinetics of Cl-initiated oxidation of vinyl acetate, *Atmospheric Environment*, 94, 2014, 63-73.
284. Gallego-Iniesta, M.P., Cabañas, B., Salgado, S., Martínez, E., Martín, P., Estimation of gas-phase rate coefficients for the reactions of a series of α,β -unsaturated esters with OH, NO_3 , O_3 and Cl, *Atmospheric Environment*, 90, 2014, 133-145.
285. Moreno, A., Gallego-Iniesta, M.P., Taccone, R., Martín, M.P., Cabañas, B., Salgado, M.S., FTIR gas-phase kinetic study on the reactions of some acrylate esters with OH radicals and Cl atoms, *Environmental Science and Pollution Research*, 21, 19, 2014, 11541-11551.
286. Gibilisco, R.G., Bejan, I., Barnes, I., Wiesen, P., Teruel, M.A., Rate coefficients at 298K and 1atm for the tropospheric degradation of a series of C6, C7 and C8 biogenic unsaturated alcohols initiated by Cl atoms, *Atmospheric Environment*, 94, 2014, 564-572.
287. Gaona Colmán, E., Blanco, M.B., Barnes, I., Teruel, M.A., Gas phase kinetics for the ozonolysis of n-butyl methacrylate, ethyl crotonate and vinyl propionate under atmospheric conditions, *Chemical Physics Letters*, 579, 2013, 11-15.
288. Hu, S.-X., Yu, J.-G., Zeng, E.Y., UV-spectroscopy, electronic structure and ozonolytic reactivity of sesquiterpenes: A theoretical study, *Journal of Molecular Modeling*, 18, 4, 2012, 1455-1462.
289. He, M., Sun, Y., Cao, H., Han, D., Hu, J., Theoretical study of the ozonolysis of allyl acetate: Mechanism and kinetics, *Structural Chemistry*, 23, 1, 2012, 201-208.
290. Salgado, M.S., Gallego-Iniesta, M.P., Martín, M.P., Tapia, A., Cabañas, B., Night-time atmospheric chemistry of methacrylates, *Environmental Science and Pollution Research*, 18, 6, 2011, 940-948.
291. Blanco, M.B., Bejan, I., Barnes, I., Wiesen, P., Teruel, M.A., FTIR product distribution study of the Cl and OH initiated degradation of methyl acrylate at atmospheric pressure, *Environmental Science and Technology*, 44, 18, 2010, 7031-7036.
292. Bernard, F., Eyglunent, G., Daële, V., Mellouki, A., Kinetics and products of gas-phase reactions of ozone with methyl methacrylate, methyl acrylate, and ethyl acrylate, *Journal of Physical Chemistry A*, 114, 32, 2010, 8376-8383.
293. Porrero, M.P.M., García, M.P.G.-I., Ruiz, J.L.E., Valle, A.T., Galán, B.C., Muñoz, M.S.S., Gas phase reactions of unsaturated esters with Cl atoms, *Environmental Science and Pollution Research*, 17, 3, 2010, 539-546.

Blanco, M., I. Bejan, I. Barnes, P. Wiesen, M.A. Teruel, Temperature-dependent rate coefficients for the reactions of Cl atoms with methyl methacrylate, methyl acrylate and butyl methacrylate at atmospheric pressure, *Atmospheric Environment*, 43, 38, 5996-6002, 2009

15 citări

294. Colmán, E.G., Blanco, M.B., Barnes, I., Teruel, M.A., Ozonolysis of a series of C7-C9 unsaturated biogenic aldehydes: Reactivity study at atmospheric pressure, *RSC Advances*, 5, 39, 2015, 30500-30506.
295. Colmenar, I., Martín, P., Cabañas, B., Salgado, S., Martínez, E., Atmospheric reactions between E,E-2,4-hexadienal and OH, NO_3 radicals and Cl atoms, *Atmospheric Environment*, 99, 2014, 159-167.
296. Blanco, M.B., Bejan, I., Barnes, I., Wiesen, P., Teruel, M.A., Products and mechanism of the reactions of OH radicals and Cl atoms with methyl methacrylate ($\text{CH}_2=\text{C}(\text{CH}_3)\text{C}(\text{O})\text{OCH}_3$) in the presence of NO_x , *Environmental Science and Technology*, 48, 3, 2014, 1692-1699.
297. Gallego-Iniesta, M.P., Cabañas, B., Salgado, S., Martínez, E., Martín, P., Estimation of gas-phase rate coefficients for the reactions of a series of α,β -unsaturated esters with OH, NO_3 , O_3 and Cl, *Atmospheric Environment*, 90, 2014, 133-145.
298. Moreno, A., Gallego-Iniesta, M.P., Taccone, R., Martín, M.P., Cabañas, B., Salgado, M.S., FTIR gas-phase kinetic study on the reactions of some acrylate esters with OH radicals and Cl atoms, *Environmental Science and Pollution Research*, 21, 19, 2014, 11541-11551.
299. Gibilisco, R.G., Bejan, I., Barnes, I., Wiesen, P., Teruel, M.A., Rate coefficients at 298K and 1atm for the tropospheric degradation of a series of C6, C7 and C8 biogenic unsaturated alcohols initiated by Cl atoms, *Atmospheric Environment*, 94, 2014, 564-572.
300. Sun, Y., Cao, H., Han, D., Li, J., He, M., Atmospheric ozonolysis study of methyl acrylate and methyl 3-methyl acrylate, *Structural Chemistry*, 24, 5, 2013, 1451-1460.
301. Gibilisco, R.G., Santiago, A.N., Teruel, M.A., OH-initiated degradation of a series of hexenols in the troposphere. Rate coefficients at 298K and 1atm, *Atmospheric Environment*, 77, 2013, 358-364.
302. Gaona Colmán, E., Blanco, M.B., Barnes, I., Teruel, M.A., Gas phase kinetics for the ozonolysis of n-butyl methacrylate, ethyl crotonate and vinyl propionate under atmospheric conditions, *Chemical Physics Letters*, 579, 2013, 11-15.
303. Colomer, J.P., Blanco, M.B., Peñéñory, A.B., Barnes, I., Wiesen, P., Teruel, M.A., Gas-phase reactivity study of (E)-3-pentenitrile and 4-pentenitrile towards OH radicals and Cl atoms at atmospheric pressure, *Atmospheric Environment*, 61, 2012, 597-604.

304. Teruel, M.A., Benitez-Villalba, J., Caballero, N., Blanco, M.B., Gas-phase oxidation of methyl crotonate and ethyl crotonate. Kinetic study of their reactions toward OH radicals and Cl atoms, *Journal of Physical Chemistry A*, 116, 24, 2012, 6127-6133.
305. Salgado, M.S., Gallego-Iniesta, M.P., Martín, M.P., Tapia, A., Cabañas, B., Night-time atmospheric chemistry of methacrylates, *Environmental Science and Pollution Research*, 18, 6, 2011, 940-948.
306. Blanco, M.B., Bejan, I., Barnes, I., Wiesen, P., Teruel, M.A., FTIR product distribution study of the Cl and OH initiated degradation of methyl acrylate at atmospheric pressure, *Environmental Science and Technology*, 44, 18, 2010, 7031-7036.
307. Bernard, F., Eyglunet, G., Daële, V., Mellouki, A., Kinetics and products of gas-phase reactions of ozone with methyl methacrylate, methyl acrylate, and ethyl acrylate, *Journal of Physical Chemistry A*, 114, 32, 2010, 8376-8383.
308. Wang, K., Ge, M., Wang, W., Kinetics of the gas-phase reactions of NO₃ radicals with ethyl acrylate, n-butyl acrylate, methyl methacrylate and ethyl methacrylate, *Atmospheric Environment*, 44, 15, 2010, 1847-1850.
309. Blanco, M.B., Barnes, I., Teruel, M.A., FTIR gas-phase kinetic study of the reactions of Cl atoms with (CH₃)₂C=CHC(O)H and CH₃CH=CHC(O)OCH₃, *Chemical Physics Letters*, 488, 04-06, 2010, 135-139.

Ceacero-Vega A.A., B. Ballesteros, J. Albaladejo, I. Bejan, I. Barnes,
Temperature dependence of the gas-phase reactions of Cl atoms with propene and 1-butene between
285 < T < 313 K,
Chemical Physics Letters, 484, 1-3, 10-13, 2009.

12 citări

310. Chu, G., Chen, J., Shui, M., Xin, J., Liu, F., Sheng, L., Xu, T., Cao, L., Gu, Y., Investigation on addition and abstraction channels in Cl reactions with 1-butene and isobutene, *International Journal of Mass Spectrometry*, 375, 2015, 1-8.
311. Sleiman, C., El Dib, G., Ballesteros, B., Moreno, A., Albaladejo, J., Canosa, A., Chakir, A., Kinetics and mechanism of the tropospheric reaction of 3-hydroxy-3-methyl-2-butanone with Cl atoms, *Journal of Physical Chemistry A*, 118, 32, 2014, 6163-6170.
312. Barnes, I., Kirschbaum, S., Simmie, J.M., Combined experimental and theoretical study of the reactivity of γ-butyro- and related lactones, with the OH radical at room temperature, *Journal of Physical Chemistry A*, 118, 27, 2014, 5013-5019.
313. Lauraguais, A., Bejan, I., Barnes, I., Wiesen, P., Coeur-Tourneur, C., Cassez, A., Rate coefficients for the gas-phase reaction of chlorine atoms with a series of methoxylated aromatic compounds, *Journal of Physical Chemistry A*, 118, 10, 2014, 1777-1784.
314. Moreno, A., Gallego-Iniesta, M.P., Taccone, R., Martín, M.P., Cabañas, B., Salgado, M.S., FTIR gas-phase kinetic study on the reactions of some acrylate esters with OH radicals and Cl atoms, *Environmental Science and Pollution Research*, 21, 19, 2014, 11541-11551.
315. Alwe, H.D., Walawalkar, M., Sharma, A., Pushpa, K.K., Dhanya, S., Naik, P.D., Rate coefficients for the gas-phase reactions of chlorine atoms with cyclic ethers at 298 K, *International Journal of Chemical Kinetics*, 45, 5, 2013, 295-305.
316. Ceacero-Vega, A.A., Ballesteros, B., Bejan, I., Barnes, I., Jiménez, E., Albaladejo, J., Kinetics and mechanisms of the tropospheric reactions of menthol, borneol, fenchol, camphor, and fenchone with hydroxyl radicals (OH) and chlorine atoms (Cl), *Journal of Physical Chemistry A*, 116, 16, 2012, 4097-4107.
317. Ceacero-Vega, A.A., Ballesteros, B., Bejan, I., Barnes, I., Albaladejo, J., Daytime reactions of 1,8-cineole in the troposphere, *ChemPhysChem*, 12, 11, 2011, 2145-2154.
318. Kaiser, E.W., Wallington, T.J., Temperature (290-400 K) and pressure (5-900 Torr) dependence of the kinetics of the reactions of chlorine atoms with propene and 1-butene, *Chemical Physics Letters*, 501, 04-06, 2011, 187-192.
319. Estillore, A.D., Visger, L.M., Suits, A.G., Imaging the dynamics of chlorine atom reactions with alkenes, *Journal of Chemical Physics*, 133, 7, 2010.
320. Justik, M.W., Halogens. *Annual Reports on the Progress of Chemistry - Section A*, 106, 2010, 136-147.
321. Iwasaki, E., Chiba, H., Nakayama, T., Matsumi, Y., Wallington, T.J., PLP-LIF study of the reactions of chlorine atoms with C₂H₂, C₂H₄, and C₃H₆ in 2-100 Torr of N₂ diluent at 295 K, *Chemical Physics Letters*, 494, 04-06, 2010, 174-178.

Blanco M., I. Bejan, I. Barnes, P. Wiesen, M. Teruel,
Atmospheric Photooxidation of Fluoroacetates as a Source of Fluorocarboxylic Acids,
Environmental Science & Technology, 44, 2354-2359, 2010.

18 citări

322. Bhattacharjee, D., Mishra, B.K., Deka, R.C., Theoretical insight on atmospheric chemistry of HFE-365mcf3: reactions with OH radicals, atmospheric lifetime, and fate of alkoxy radicals (CF₃CF₂CH(O•)OCH₃/CF₃CF₂CH₂OCH₂O•), *Journal of Molecular Modeling*, 21, 4, 2015, 1-8.
323. Palma-Flores, O., Flores-Tlacuahuac, A., Canseco-Melchor, G., Optimal molecular design of working fluids for sustainable low-temperature energy recovery, *Computers and Chemical Engineering*, 72, 2015, 334-349.
324. Deka, R.C., Mishra, B.K., Theoretical investigation of the atmospheric chemistry of methyl difluoroacetate: Reaction with Cl atoms and fate of alkoxy radical at 298 K, *Structural Chemistry*, 25, 5, 2014, 1475-1482.
325. Mishra, B.K., Deka, R.C., A theoretical investigation on kinetics, mechanism, and thermochemistry of the gas-phase reactions of methyl fluoroacetate with OH radicals and fate of alkoxy radical, *Journal of Physical Chemistry A*, 118, 38, 2014, 8779-8786.
326. Singh, H.J., Tiwari, L., Rao, P.K., Computational study on the kinetics of OH initiated oxidation of methyl difluoroacetate (CF₂HCOOCH₃), *Molecular Physics*, 112, 14, 2014, 1892-1898.
327. Singh, H.J., Tiwari, L., Rao, P.K., Computational study on OH and Cl initiated oxidation of 2,2,2-trifluoroethyl trifluoroacetate (CF₃C(O)OCH₂CF₃), *Bulletin of the Korean Chemical Society*, 35, 5, 2014, 1385-1390.
328. Gour, N.K., Deka, R.C., Singh, H.J., Mishra, B.K., A computational perspective on mechanism and kinetics of the reactions of CF₃C(O)OCH₂CF₃ with OH radicals and Cl atoms at 298 K, *Journal of Fluorine Chemistry*, 160, 2014, 64-71.
329. Mishra, B.K., Theoretical investigation on the atmospheric fate of the CF₃C(O)OCH(O)CF₃ radical: Alpha-ester rearrangement vs. oxidation, *RSC Advances*, 4, 32, 2014, 16759-16764.
330. Mishra, B.K., Lily, M., Deka, R.C., Chandra, A.K., Theoretical investigation on gas-phase reaction of CF₃CH₂OCH₃ with OH radicals and fate of alkoxy radicals (CF₃CH(O)OCH₃/CF₃CH₂OCH₂O), *Journal of Molecular Graphics and Modelling*, 50, 2014, 90-99.
331. Mishra, B.K., Theoretical investigation on the atmospheric fate of CF₃C(O)OCH₂O radical: alpha-ester rearrangement vs oxidation at 298 K, *Journal of Molecular Modeling*, 20, 9, 2014, 1-7.
332. Mishra, B.K., Singh, H.J., Tiwari, L., Theoretical investigation on mechanism and kinetics of the Cl-initiated hydrogen abstraction reactions of ethyl trifluoroacetate at 298 K, *Journal of Molecular Modeling*, 20, 10, 2014.
333. Mishra, B.K., Chakrabarty, A.K., Deka, R.C., Theoretical investigation of the gas-phase reactions of CF₂ClC(O)OCH₃ with the hydroxyl radical and the chlorine atom at 298 K, *Journal of Molecular Modeling*, 19, 8, 2013, 3263-3270.
334. Blanco, M.B., Rivela, C., Teruel, M.A., Tropospheric degradation of 2,2,2 trifluoroethyl butyrate: Kinetic study of their reactions with OH radicals and Cl atoms at 298 K, *Chemical Physics Letters*, 578, 2013, 33-37.
335. Taniyasu, S., Yamashita, N., Yamazaki, E., Petrick, G., Kannan, K., The environmental photolysis of perfluorooctanesulfonate, perfluorooctanoate, and related fluorochemicals, *Chemosphere*, 90, 52, 2013, 1686-1692.
336. Chakrabarty, A.K., Mishra, B.K., Bhattacharjee, D., Deka, R.C., Mechanistic and kinetics study of the gas phase reactions of methyltrifluoroacetate with OH radical and Cl atom, *Molecular Physics*, 111, 7, 2013, 860-867.
337. Ahrens, L., Maruszczak, N., Rubarth, J., Dommergue, A., Nedjai, R., Ferrari, C., Ebinghaus, R., Distribution of perfluoroalkyl compounds and mercury in fish liver from high-mountain lakes in France originating from atmospheric deposition, *Environmental Chemistry*, 7, 5, 2010, 422-428.
338. Blanco, M.B., Barnes, I., Teruel, M.A., Product distribution in the Cl-initiated photooxidation of CF₃C(O)OCH₂CF₃, *Journal of Physical Organic Chemistry*, 23, 10, 2010, 950-954.
339. Ruan, T., Wang, Y., Wang, T., Zhang, Q., Ding, L., Liu, J., Wang, C., Qu, G., Jiang, G., Presence and partitioning behavior of polyfluorinated iodine alkanes in environmental matrices around a fluorochemical manufacturing plant: Another possible source for perfluorinated carboxylic acids?, *Environmental Science and Technology*, 44, 15, 2010, 5755-5761.

**Blanco M., I. Bejan, I. Barnes, P. Wiesen, M. Teruel,
FTIR Product Distribution Study of the Cl and OH Initiated Degradation of Methyl Acrylate under
Atmospheric Pressure,
Environmental Science & Technology, 44 (18) 7031-7037, 2010**

5 citari

340. Sun, Y., Zhang, Q., Hu, J., Chen, J., Wang, W., Theoretical study for OH radical-initiated atmospheric oxidation of ethyl acrylate, *Chemosphere*, 119, 2015, 626-633.
341. Blanco, M.B., Bejan, I., Barnes, I., Wiesen, P., Teruel, M.A., Products and mechanism of the reactions of OH radicals and Cl atoms with methyl methacrylate (CH₂=C(CH₃)C(O)OCH₃) in the presence of NO_x, *Environmental Science and Technology*, 48, 3, 2014, 1692-1699.

- 342.** Moreno, A., Gallego-Iniesta, M.P., Taccone, R., Martín, M.P., Cabañas, B., Salgado, M.S., FTIR gas-phase kinetic study on the reactions of some acrylate esters with OH radicals and Cl atoms, *Environmental Science and Pollution Research*, 21, 19, 2014, 11541-11551.
- 343.** Teruel, M.A., Benitez-Villalba, J., Caballero, N., Blanco, M.B., Gas-phase oxidation of methyl crotonate and ethyl crotonate. Kinetic study of their reactions toward OH radicals and Cl atoms, *Journal of Physical Chemistry A*, 116, 24, 2012, 6127-6133.
- 344.** Blanco, M.B., Teruel, M.A., Atmospheric photodegradation of ethyl vinyl ketone and vinyl propionate initiated by OH radicals, *Chemical Physics Letters*, 502, 04-06, 2011, 159-162.

Schütze, N., X. Zhong, S. Kirschbaum, I. Bejan, I. Barnes, T. Benter,
Relative kinetic measurements of rate coefficients for the gas-phase reactions of Cl atoms and OH radicals with a series of methyl alkyl esters,
Atmospheric Environment, 44 (40), 5407-5414, 2010.

3 citări

- 345.** Chow, R., Ng, M., Mok, D.K.W., Lee, E.P.F., Dyke, J.M., Rate coefficients of the $\text{Cl} + \text{CH}_3\text{C}(\text{O})\text{OCH}_3 \rightarrow \text{HCl} + \text{CH}_3\text{C}(\text{O})\text{OCH}_2$ reaction at different temperatures calculated by transition-state theory with ab initio and density functional theory reaction paths, *Journal of Physical Chemistry A*, 118, 11, 2014, 2040-2055.
- 346.** Deka, R.C., Mishra, B.K., A theoretical investigation on the kinetics, mechanism and thermochemistry of gas-phase reactions of methyl acetate with chlorine atoms at 298 K, *Chemical Physics Letters*, 595-596, 2014, 43-47.
- 347.** Poutsma, M.L., Evolution of structure-reactivity correlations for the hydrogen abstraction reaction by chlorine atom, *Journal of Physical Chemistry A*, 117, 4, 2013, 687-703.

Ceacero-Vega A.A., Ballesteros B., Bejan I., Barnes I., Albaladejo J.,
Daytime Reactions of 1,8-Cineole in the Troposphere,
Chemphyschem, 12(11) 2145-2154, 2011

2 citări

- 348.** Sleiman, C., El Dib, G., Ballesteros, B., Moreno, A., Albaladejo, J., Canosa, A., Chakir, A. Kinetics and mechanism of the tropospheric reaction of 3-hydroxy-3-methyl-2-butanone with Cl atoms, *Journal of Physical Chemistry A*, 118, 32, 2014, 6163-6170.
- 349.** Ceacero-Vega, A.A., Ballesteros, B., Bejan, I., Barnes, I., Jiménez, E., Albaladejo, J., Kinetics and mechanisms of the tropospheric reactions of menthol, borneol, fenchol, camphor, and fenchone with hydroxyl radicals (OH) and chlorine atoms (Cl), *Journal of Physical Chemistry A*, 116, 16, 2012, 4097-4107.

Villena G., Bejan I., Kurtenbach R., Wiesen P., Kleffmann J.,
Development of a new Long Path Absorption Photometer (LOPAP) instrument for the sensitive detection of NO₂ in the atmosphere,
Atmospheric Measurement Techniques, 4(8), 1663-1676, 2011

5 citări

- 350.** Zheng, H., Dong, L., Yin, X., Liu, X., Wu, H., Zhang, L., Ma, W., Yin, W., Jia, S., Ppb-level QEPAS NO₂ sensor by use of electrical modulation cancellation method with a high power blue LED, *Sensors and Actuators, B: Chemical*, 208, 2015, 173-179.
- 351.** Chen, L., Hou, S.-Q., Wang, W.-G., Tong, S.-R., Pei, K.-M., Ge, M.-F., Development of a home-made long path absorption photometer for the sensitive detection of nitrous acid, *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, 30, 8, 2014, 1408-1415.
- 352.** Kleffmann, J., Tapia, G.V., Bejan, I., Kurtenbach, R., Wiesen, P., NO₂ Measurement Techniques: Pitfalls and New Developments-NATO Science for Peace and Security Series C: Environmental Security, 120, 2013, 15-28.
- 353.** Peters, S., Bejan, I., Kurtenbach, R., Liedtke, S., Villena, G., Wiesen, P., Kleffmann, J., Development of a new LOPAP instrument for the detection of O₃ in the atmosphere, *Atmospheric Environment*, 67, 2013, 112-119.
- 354.** Villena, G., Bejan, I., Kurtenbach, R., Wiesen, P., Kleffmann, J., Interferences of commercial NO₂ instruments in the urban atmosphere and in a smog chamber. *Atmospheric Measurement Techniques*, 5, 1, 2012, 149-159.

Kourtchev I., Bejan I., Sodeau J.R., Wenger J.C.,
Gas phase reaction of OH radicals with (E)-beta-farnesene at 296 +/- 2 K: Rate coefficient and carbonyl products,
Atmospheric Environment 46, 338-345, 2012

3 citări

- 355.** Guo, S.-J., Chen, M., He, X.-L., Yang, W.-W., Tan, J.-H., Seasonal and diurnal characteristics of carbonyls in urban air in Qinzhou, China, *Aerosol and Air Quality Research*, 14, 6, 2014, 1653-1664.

356. Ham, J.E., Rate constants for the gas-phase reactions of ozone and nitrate radicals with the sesquiterpenes: Valencene and farnesol, *International Journal of Chemical Kinetics*, 45, 8, 2013, 508-514.
357. Jaoui, M., Kleindienst, T.E., Docherty, K.S., Lewandowski, M., Offenberg, J.H., Secondary organic aerosol formation from the oxidation of a series of sesquiterpenes: α -cedrene, β -caryophyllene, α -humulene and α -farnesene with O₃, OH and NO₃ radicals, *Environmental Chemistry*, 10, 3, 2013, 178-193.

Bejan I., Schurmann A., Barnes I., Benter T.,
Kinetics of the gas-phase reactions of OH radicals with a series of trimethylphenols,
International Journal of Chemical Kinetics, 44(2), 117-124, 2012.

1 citare.

358. Aschmann, S.M., Arey, J., Atkinson, R., Rate Constants for the Reactions of Oh Radicals with 1,2,4,5-Tetramethylbenzene, Pentamethylbenzene, 2,4,5-Trimethylbenzaldehyde, 2,4,5-Trimethylphenol, and 3-Methyl-3-Hexene-2,5-Dione and Products of OH + 1,2,4,5-tetramethylbenzene, *Journal of Physical Chemistry A*, 117, 12, 2013, 2556-2568.

Ceacero-Vega A.A., Ballesteros B., Bejan I., Barnes I., Jimenez E., Albaladejo J.,
Kinetics and Mechanisms of the Tropospheric Reactions of Menthyl, Borneol, Fenchol, Camphor, and Fenchone with Hydroxyl Radicals (OH) and Chlorine Atoms (Cl),
Journal of Physical Chemistry A, 116(16), 4097-4107, 2012

1 citare.

359. Sleiman, C., El Dib, G., Ballesteros, B., Moreno, A., Albaladejo, J., Canosa, A., Chakir, A., Kinetics and mechanism of the tropospheric reaction of 3-hydroxy-3-methyl-2-butanone with Cl atoms, *Journal of Physical Chemistry A*, 118, 32, 2014, 6163-6170.

Blanco, M.B., Bejan I., Barnes I., Wiesen P., Teruel M.A.,
Atmospheric Oxidation of Vinyl and Allyl Acetate: Product Distribution and Mechanisms of the OH-
Initiated Degradation in the Presence and Absence of NO_x,
Environmental Science and Technology, 46(16), 8817-8825, 2012.

5 citări

360. Li, M., Li, J., Cao, H., Han, D., He, M., Mechanistic and kinetic investigations on the ozonolysis of isopropenyl acetate and propenyl acetate in atmosphere, *Computational and Theoretical Chemistry*, 1049, 2014, 42-50.
361. Rodríguez, A., Rodríguez, D., Moraleta, A., Bravo, I., Moreno, E., Notario, A., Atmospheric chemistry of HFE-7300 and HFE-7500: Temperature dependent kinetics, atmospheric lifetimes, infrared spectra and global warming potentials, *Atmospheric Environment*, 96, 2014, 145-153.
362. Li, J., Cao, H., Han, D., Li, M., Li, X., He, M., Ma, S., Computational study on the mechanism and kinetics of Cl-initiated oxidation of vinyl acetate, *Atmospheric Environment*, 94, 2014, 63-73.
363. An, J.T., Shang, K.F., Lu, N., Jiang, Y.Z., Wang, T.C., Li, J., Wu, Y., Oxidation of elemental mercury by active species generated from a surface dielectric barrier discharge plasma reactor, *Plasma Chemistry and Plasma Processing*, 34, 1, 2014, 217-228.
364. Bravo, I., Rodríguez, A., Rodríguez, D., Diaz-De-Mera, Y., Notario, A., Aranda, A., Atmospheric chemistry and environmental assessment of inhalational fluroxene, *ChemPhysChem*, 14, 16, 2013, 3834-3842.

Nakashima, Y., Tsurumaru H., Imamura T., Bejan I., Wenger J.C., Kajii Y.,
Total OH reactivity measurements in laboratory studies of the photooxidation of isoprene,
Atmospheric Environment 62, 243-247, 2012

2 citări

365. Nölscher, A.C., Butler, T., Auld, J., Veres, P., Muñoz, A., Taraborrelli, D., Vereecken, L., Lelieveld, J., Williams, J., Using total OH reactivity to assess isoprene photooxidation via measurement and model, *Atmospheric Environment*, 89, 2014, 453-463.
366. Nakashima, Y., Kato, S., Greenberg, J., Harley, P., Karl, T., Turnipseed, A., Apel, E., Guenther, A., Smith, J., Kajii, Y., Total OH reactivity measurements in ambient air in a southern Rocky mountain ponderosa pine forest during BEACHON-SRM08 summer campaign, *Atmospheric Environment*, 85, 2013, 1-8.

Villena G., Bejan I., Kurtenbach R., Wiesen P., Kleffmann J.,
Interferences of commercial NO₂ instruments in the urban atmosphere and in a smog chamber,
Atmospheric Measurement Techniques, 5(1), 149-159, 2012

13 citări

367. Reidl-Leuthner, C., Ofner, J., Tomischko, W., Lohninger, H., Lendl, B., Simultaneous open-path determination of road side mono-nitrogen oxides employing mid-IR laser spectroscopy, *Atmospheric Environment*, 112, 2015, 189-195.
368. Engel, A., Glyk, A., Hülsewig, A., Große, J., Dillert, R., Bahnemann, D.W. Determination of the photocatalytic deposition velocity, *Chemical Engineering Journal*, 261, 2015, 88-94.
369. Akimoto, H., Mori, Y., Sasaki, K., Nakanishi, H., Ohizumi, T., Itano, Y., Analysis of monitoring data of ground-level ozone in Japan for long-term trend during 1990-2010: Causes of temporal and spatial variation, *Atmospheric Environment*, 102, 2015, 302-310.
370. Gallus, M., Akyas, V., Barmas, F., Beeldens, A., Boonen, E., Boréave, A., Cazaunau, M., Chen, H., Daële, V., Doussin, J.F., Dupart, Y., Gaimoz, C., George, C., Grosselin, B., Herrmann, H., Ifang, S., Kurtenbach, R., Maille, M., Mellouki, A., Miet, K., Mothes, F., Moussiopoulou, N., Poulain, L., Rabe, R., Zapf, P., Kleffmann, J., Photocatalytic de-pollution in the Leopold II tunnel in Brussels: NO_x abatement results, *Building and Environment*, 84, 2015, 125-133.
371. Mues, A., Kuenen, J., Hendriks, C., Manders, A., Segers, A., Scholz, Y., Hueglin, C., Builtjes, P., Schaap, M., Sensitivity of air pollution simulations with LOTOS-EUROS to the temporal distribution of anthropogenic emissions, *Atmospheric Chemistry and Physics*, 14, 2, 2014, 939-955.
372. Dong, M.-L., Xu, X.-Z., Zhao, W.-X., Gu, X.-J., Hu, C.-J., Gai, Y.-B., Gao, X.-M., Huang, W., Zhang, W.-J., High-sensitive trace detection of NO₂ with broadband cavity-enhanced spectroscopy, *Journal of Applied Optics*, 35, 2, 2014, 264-269.
373. Cao, W., Zeng, L., Wu, Y., Yu, X., Design and application of the NO_x photolytic convertor system, *Huanjing Kexue Xuebao/Acta Scientiae Circumstantiae*, 34, 11, 2014, 2911-2917.
374. Raivonen, M., Kolari, P., Joensuu, J., Altimir, N., Kolari, P., Keronen, P., Assessment of field monitoring of plant fluxes of oxidized nitrogen with two types of detectors, *Boreal Environment Research*, 19, 2014, 20-34.
375. Ifang, S., Gallus, M., Liedtke, S., Kurtenbach, R., Wiesen, P., Kleffmann, J., Standardization methods for testing photo-catalytic air remediation materials: Problems and solution, *Atmospheric Environment*, 91, 2014, 154-161.
376. Kleffmann, J., Tapia, G.V., Bejan, I., Kurtenbach, R., Wiesen, P., NO₂ Measurement Techniques: Pitfalls and New Developments-NATO Science for Peace and Security Series C: Environmental Security, 120, 2013, 15-28.
377. Miñarro, M.D., Ballesta, P.P., Rico, J.B., Ferradás, E.G., Uncertainty models and influence of the calibration span on ambient air measurements of NO₂ by chemiluminescence, *Environmental Sciences: Processes and Impacts*, 15, 2, 2013, 512-523.
378. Peters, S., Bejan, I., Kurtenbach, R., Liedtke, S., Villena, G., Wiesen, P., Kleffmann, J., Development of a new LOPAP instrument for the detection of O₃ in the atmosphere, *Atmospheric Environment*, 67, 2013, 112-119.
379. Kurtenbach, R., Kleffmann, J., Niedojadlo, A., Wiesen, P., Primary NO₂ emissions and their impact on air quality in traffic environments in Germany, *Environmental Sciences Europe*, 24, 6, 2012.

Peters, S., I. Bejan, R. Kurtenbach, S. Liedtke, G. Villena, P. Wiesen, J. Kleffmann, Development of a new LOPAP instrument for the detection of O₃ in the atmosphere, *Atmospheric Environment* 67, 112-119, 2013.

1 citare

380. Chen, L., Hou, S.-Q., Wang, W.-G., Tong, S.-R., Pei, K.-M., Ge, M.-F., Development of a home-made long path absorption photometer for the sensitive detection of nitrous acid, *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, 30, 8, 2014, 1408-1415.

Olariu, R.I., I. Barnes, I. Bejan, C. Arsene, D. Vione, B. Klotz, K.H. Becker, FT-IR product study of the reactions of NO₃ radicals with ortho -, meta -, and para-cresol, *Environmental Science and Technology*, 47, 14, 2013, 7729-7738.

1 citare

381. Barnes, I., Kirschbaum, S., Simmie, J.M., Combined experimental and theoretical study of the reactivity of γ -butyro-and related lactones, with the OH radical at room temperature, *Journal of Physical Chemistry A*, 118, 27, 2014, 5013-5019.

Derpmann, V., D. Mueller, I. Bejan, H. Sonderfeld, S. Wilberscheid, R. Koppmann, K.J. Brockmann, T. Benter, Capillary Atmospheric Pressure Electron Capture Ionization (cAPECI): A Highly Efficient Ionization Method for Nitroaromatic Compounds, *Journal of the American Society for Mass Spectrometry*, 25(3), 329-342, 2014.

1 citare

382. Klee, S., Thinius, M., Brockmann, K.J., Benter, T., Capillary atmospheric pressure chemical ionization using liquid point electrodes, *Rapid Communications in Mass Spectrometry*, 28, 14, 2014, 1591-1600.

Gibilisco, R.G., I. Bejan, I. Barnes, P. Wiesen, M.A. Teruel, M. A., Rate coefficients at 298 K and 1 atm for the tropospheric degradation of a series of C-6, C-7 and C-8 biogenic unsaturated alcohols initiated by Cl atoms, *Atmospheric Environment* 94, 564-572, 2014.

1 citare

383. Gibilisco, R.G., Bejan, I., Barnes, I., Wiesen, P., Teruel, M.A., FTIR gas kinetic study of the reactions of ozone with a series of hexenols at atmospheric pressure and 298 K, *Chemical Physics Letters*, 618, 2015, 114-118.

Blanco, M.B., I. Bejan, I. Barnes, P. Wiesen, M.A. Teruel, Products and Mechanism of the Reactions of OH Radicals and Cl Atoms with Methyl Methacrylate ($\text{CH}_2=\text{C}(\text{CH}_3)\text{C}(\text{O})\text{OCH}_3$) in the Presence of Nox, *Environmental Science and Technology*, 48(3), 1692-1699, 2014

3 citari

384. Sun, Y., Zhang, Q., Hu, J., Chen, J., Wang, W., Theoretical study for OH radical-initiated atmospheric oxidation of ethyl acrylate, *Chemosphere*, 119, 2015, 626-633.

385. Gao, R., Zhu, L., Zhang, Q., Wang, W., Atmospheric oxidation mechanism and kinetic studies for OH and NO₃ radical-initiated reaction of methyl methacrylate, *International Journal of Molecular Sciences*, 15, 3, 2014, 5032-5044.

386. Moreno, A., Gallego-Iniesta, M.P., Taccone, R., Martín, M.P., Cabañas, B., Salgado, M.S., FTIR gas-phase kinetic study on the reactions of some acrylate esters with OH radicals and Cl atoms, *Environmental Science and Pollution Research*, 21, 19, 2014, 11541-11551.

I.13 Lucrări susținute în calitate de invitat la manifestări științifice (conferințe, congrese, simpozioane, seminarii și ateliere de lucru), străinătate/[25 puncte pentru fiecare activitate] țară/[10 puncte pentru fiecare activitate]

TOTAL= 135 puncte

1. Iustinian Bejan, Investigations on the gas-phase chemistry of some selected nitroaromatic hydrocarbons. Invited Lecture at Faculty of Chemical Sciences, University National of Cordoba, 2007, 24 October, in cadrul programului PROALAR.
2. Iustinian Bejan, Phenoxy-Type Radical Formation from the Oxidation of Phenolic-Type Compounds - Investigations on Nitrophenols, *Atmospheric Chemical Mechanisms*, 2008, 10-12 December, Davis, USA
3. Iustinian Bejan, A new gas phase source of HONO: ortho-nitrosubstituted alkyl benzenes photolysis. Invited expert workshop. Nitrous acid: Tropospheric Chemistry, Measurement Methods and Future Directions, 2008, 3-5 March, Wuppertal, Germany
4. Iustinian Bejan, The Photolysis of Different Nitroaromatics: A daytime Source of HONO, *Atmospheric Chemical Mechanisms*, 2010, 10-12 December, Davis, USA
5. Iustinian Bejan, Gas Phase Nitrous acid Sources from Photolytic Processes: Nitroaromatics, 10th Workshop in the Series "Urban Air Quality and Traffic" Atmospheric Composition and Processes in Contrasting Environments, 2011, 19-21 September, Cork, Ireland
6. Iustinian Bejan, New investigations on the gas phase reactions important for atmosphere, Faculty of Chemistry Conference, 2014, October 31 – November 01, Iasi, Romania

I.14 Profesor/cercetător invitat la universități/institute de cercetare

TOTAL= 50 puncte

7. Cercetator invitat la University National of Cordoba, Faculty of Chemical Sciences, Cordoba, Argentina, in perioada 15.09.2007-30.10.2007.
8. Cercetator invitat la Laboratoire Interuniversitaire des Systèmes Atmosphériques (LISA) - UMR CNRS, Université Paris-Est Créteil, France.

I.19 Participări la manifestări științifice

TOTAL = 906 puncte

Raportor/[10 puncte pe fiecare secțiune]

Internaționale

880 puncte

1. EC/EUROTRAC-2 Symposium, "Transport and Chemical Transformation in the Troposphere" 2002, 11-15 March, Garmisch - Partenkirchen, Germany
Tomas, A., R. Olariu, I. Barnes, I. Bejan, H. Geiger and R. Mocanu
Atmospheric Chemistry of Benzenediols: Reaction with Ozone.

2. 17th International Symposium on Gas Kinetics, 2002, 25-28 August, Essen, Germany
Olariu, R., I. Barnes, I. Bejan, K.H. Becker and K. Wirtz
Rate Constants for the Gas-Phase Reaction of the NO₃ Radicals with a Series of Benzenediol Compounds.
3. EC/EUTROTRAC-2 Joint Workshop, "Shaping the Future of Atmospheric Chemistry Research in Europe"
2002, 9-11 September, Paris, France
Bejan, I., R.I. Olariu, I. Barnes, Th. Benter and K. Wirtz
FT-IR Investigations on the Gas-Phase Reactions of the NO₃ and OH Radicals with a Series of Benzenediol Compounds (GPP1).
4. EC/EUTROTRAC-2 Joint Workshop, "Shaping the Future of Atmospheric Chemistry Research in Europe"
2002, 9-11 September, Paris, France
Geiger, H., I. Barnes, I. Bejan, Th. Benter and M. Spittler
A New Chemical Module for Tropospheric Isoprene Degradation Applied to the RACM Mechanism (MPM2).
5. The German Atmospheric Research Programme 2000-2006, AFO-2000, 2002, 7-9 October, Schliersee, Germany
Geiger, H., I. Barnes, I. Bejan, Th. Benter and M. Spittler
A New Chemical Module for Tropospheric Isoprene Degradation Applied for the RACM Mechanism.
6. The German Atmospheric Research Programme 2000-2006, AFO 2000, 2002, 7-9 October, Schliersee, Germany
Spittler, M., I. Barnes, I. Bejan, K.J. Brockmann and K. Wirtz
Smog Chamber Study on the Reaction of Biogenic VOCs with NO₃: Investigations of Aerosol Formation and Chemical Mechanisms.
7. Seventh US - German Workshop on Photochemical Ozone Problem and Its Control 2002, 9 – 11 October
Rheinhotel 4 Jahreszeiten, Bad Breisig/Germany
Geiger, H., I. Barnes, I. Bejan, T. Benter and M. Spittler
Tropospheric Degradation of Isoprene: A New Module for Condensed Chemical Mechanisms
8. Final Meeting of EXACT Project, 2003, January, Cork, Ireland,
Bejan, I., I. Barnes, (oral presentation)
Rate Coefficients for the Gas-Phase Reactions of NO₃ Radicals with (methyl)-1,2-Dihydroxybenzenes.
9. EGS-AGU-EUG Joint Assembly, EUROPEAN GEOPHYSICAL SOCIETY, XXVIII, Geophysical Research Abstracts, 5, 11824, 2003, 6-11 April, Nice, France
Bejan, I., R. Olariu, I. Barnes and R. Mocanu
FT-IR Product Studies on the OH Radical and O₃ Initiated Oxidation in Gas-Phase of the (methyl)-1,2-Dihydroxybenzene.
10. EGS-AGU-EUG Joint Assembly, EUROPEAN GEOPHYSICAL SOCIETY, XXVIII, Geophysical Research Abstracts, 5, 14634, 2003, 6-11 April, Nice, France
Geiger, H., I. Barnes, I. Bejan, T. Benter, M. Spittler
Modelling the Degradation of Isoprene in the EUPHORE Smog Chamber: an Updated RACM Scheme and Intercomparison of Other Condensed Mechanisms.
11. EGS-AGU-EUG Joint Assembly, EUROPEAN GEOPHYSICAL SOCIETY, XXVIII, Geophysical Research Abstracts, 5, 11692, 2003, 6-11 April, Nice, France
Olariu, R.I., I. Barnes, I. Bejan, C. Arsene, K.H. Becker, K. Wirtz
Secondary Organic Aerosol Formation from the Atmospheric Oxidation of Phenols.
12. 1st General Assembly, EUROPEAN GEOSCIENCES UNION, Geophysical Research Abstracts, 6, 07566 SRef-ID: 1607-7962/gra/EGU04-A-07566, ISSN:1029-7006, 2004, 25 - 30 April, Nice, France
Bejan, I., I. Barnes, R. Olariu and R. Mocanu
Secondary Organic Aerosol Formation from the Photolysis of Nitrophenols and Nitrocresols.
13. 1st General Assembly, EUROPEAN GEOSCIENCES UNION, Geophysical Research Abstracts, 6, 07103, 2004, 25 - 30 April, Nice, France
Olariu, R.I., A. Tomas, I. Barnes, I. Bejan, C. Arsene and K. Wirtz
Organic Aerosol Formation during the Atmospheric Ozone Degradation of 1,2-Dihydroxybenzenes.

14. 18th International Symposium on Gas Kinetics, 2004, 7-12 August, Bristol, UK
Bejan, I., I. Barnes, R. Olariu and R. Mocanu
 Kinetic Investigations of the Gas-Phase Reactions of the OH Radical with a Series of Nitroaromatic Compounds.
15. NATO Advanced Research Workshop, Environmental Simulation Chambers: Application to Atmospheric Chemical Processes, 2004, October 01-04, Zakopane, Poland
Bejan, I., I. Barnes, R. Olariu, K.H. Becker and R. Mocanu
 FT-IR Study of the Kinetic Gas-Phase Reactions of the OH Radical with a Series of Nitroaromatic Compounds.
16. AFO2000 Abschluss-Symposium, 2004, 22-24 March, Bad Tölz, http://www.afo-2000.de/symposium04/afo_abstracts/poster_index.php
 Geiger, H., I. Barnes, T. Benter, I. Bejan and M. Spittler
 Validation of Chemical Mechanisms for the Degradation of Isoprene and α -Pinene – A New Chemical Isoprene Degradation Module for the RACM Mechanism.
17. AFO2000 Abschluss-Symposium, 2004, 22-24 March, Bad Tölz, http://www.afo-2000.de/symposium04/afo_abstracts/poster_index.php
 Barnes, I., I. Bejan, K.J. Brockmann and M. Spittler
 Laboratory and Smog Chamber Experiments on the Atmospheric Degradation of Biogenic VOC: Investigation of the Aerosol Formation and Validation of Chemical Mechanisms.
18. General Assembly, 2005, EUROPEAN GEOSCIENCES UNION, Geophysical Research Abstracts, 7, 06143, SRef-ID: 1607-7962/gra/EGU05-A-06143, ISSN:1029-7006, 2005, 24 - 29 April, Vienna, Austria
Bejan, I., I. Barnes, R. Olariu, K. H. Becker and R. Mocanu
 New Results on the Atmospheric Chemistry of Oxygenated Aromatic Compounds.
19. INTROP/EUROCHAMP/ACCENT Joint Workshop on Organics; 2005, 8-11 January, Alpe d'Huez, France (oral presentation)
Bejan, I., Y. El Shorbany, I. Barnes, Th. Benter, B. Bohn, P. Wiesen and J. Kleffmann
 The photolysis of ortho-Nitrophenols: A New Gas Phase Source of HONO.
20. General Assembly, EUROPEAN GEOSCIENCES UNION, Geophysical Research Abstracts, Vol. 8, 07497, 2006, 2-7 April, Vienna, Austria
Bejan, I., I. Barnes, R. Olariu, M. Duncianu, Sh. Zhou and K.H. Becker
 Secondary Organic Aerosol Formation during the Gas Phase Photolysis of Nitrophenols
21. General Assembly, EUROPEAN GEOSCIENCES UNION, Geophysical Research Abstracts, Vol 8, 06096, 2006, 2-7 April, Vienna, Austria
 Zhou, Sh., I. Barnes, T. Zhu, B. Klotz, M. Albu, I. Bejan and Th. Benter
 Mechanism for the Atmospheric Photooxidations of Vinyl Ether
22. General Assembly, EUROPEAN GEOSCIENCES UNION, Geophysical Research Abstracts, Vol 8, 07012, 2006, 2-7 April, Vienna, Austria
 Duncianu, M., I. Bejan and I. Barnes
 Atmospheric Chemistry of Phenoxy-Type Radicals Formed in the Oxidation of Phenolic-Type Compounds
23. General Assembly, EUROPEAN GEOSCIENCES UNION, Geophysical Research Abstracts, Vol 8, 06160, 2006, 2-7 April, Vienna, Austria
Bejan, I., I. Barnes, T. Benter, B. Bohn, Y. El Shorbany, P. Wiesen and J. Kleffmann
 The Photolysis of ortho-Nitrophenols: A New Gas Phase Source of HONO.
24. Bunsentagung 2006 in Erlangen Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 2006, 25-27 May, Germany
 Kleffmann, J., I. Bejan, Y. Abd El Aal, I. Barnes, Th. Benter, P. Wiesen and B. Bohn
 The Photolysis of ortho-Nitrophenols: A New Gas Phase Source of HONO
25. 19th International Symposium on Gas Kinetics, 2006, 22-27 July, Orleans, France
Bejan, I., I. Barnes, R. Olariu, M. Duncianu, Sh. Zhou and K.H. Becker
 Investigations on the Gas Phase Chlorine Atom Initiated Oxidation of 1,2-Dihydroxybenzenes.

26. 19th International Symposium on Gas Kinetics, 2006, 22-27 July, Orleans, France
Zhou, Sh., I. Barnes, T. Zhu, I. Bejan and Th. Benter
Rate Constants for the Gas Phase Reactions of OH and NO₃ Radicals and O₃ with Selected Vinyl Ethers,
27. International Conference on Atmospheric Chemical Mechanisms, 2006, 6-8 December, 2006, Davis, USA
Barnes I., I. Bejan, J. Kleffmann, P. Wiesen
Mechanism of the Photooxidation of Aromatic Hydrocarbon Ring Retaining Products
28. Spring Meeting of the German Physical Society - Environmental Physics Association, 2007, 26-30 March, Regensburg, Germany (oral presentation)
Bejan, I., I. Barnes, Th. Benter, P. Wiesen and J. Kleffmann
The Photolysis of Methyl-Substituted Nitroaromatics: A New Gas Phase Source of HONO
29. Second ACCENT Symposium "Atmospheric Composition Change. Causes and Consequences - Local to Global", 2007, 23-27 July, Urbino, Italy
Bejan, I., I. Barnes, Th. Benter, P. Wiesen and J. Kleffmann
The Photolysis of ortho-(Alkyl)-substituted Nitroaromatics: A New Gas Phase Source of HONO
30. RSC Gas Kinetics Discussion Group 2007, 2007, 10-12 September, Leeds, United Kingdom
Bejan, I., I. Barnes, M. Duncianu, R. Olariu, Sh. Zhou, P. Wiesen and Th. Benter
Photolysis and OH Radical Kinetics of Methyl-2-nitrophenols
31. NATO Advanced Research Workshop, Simulation and Assessment of Chemical Processes in a Multiphase Environment, 2007, October 1-5, Alushta, Ukraine
Blanco, M.B., I. Bejan, I. Barnes, P. Wiesen and M.A. Teruel
Methyl methacrylate in the atmosphere: OH- and Cl - initiated oxidation in the gas phase
32. NATO Advanced Research Workshop, Simulation and Assessment of Chemical Processes in a Multiphase Environment, 2007, October 1-5, Alushta, Ukraine
Zhou, Sh., I. Barnes, T. Zhu, I. Bejan and Th. Benter
Exploratory Studies on Secondary Organic Aerosol Formation in the Ozonolysis of Alkyl Vinyl Ethers
33. First Interdisciplinary Meeting of Investigations on the Environmental Problems, 2007, September 27-29, Cordoba, Argentina
Blanco, M.B., I. Bejan, I. Barnes, P. Wiesen and M.A. Teruel
Fluoroesters Degradation in Marine Environment
34. 9th Latin American Conference on Physical Organic Chemistry, (CLAFQO-9) 2007, September 30 - October 5, Córdoba, Argentina (oral presentation)
Bejan, I., I. Barnes, G. Villena Tapia, Th. Benter, P. Wiesen and J. Kleffmann
The photolysis of ortho-(hydroxylated or alkylated) nitroaromatics: A new gas phase source of HONO
35. 9th Latin American Conference on Physical Organic Chemistry, (CLAFQO-9) 2007, September 30 - October 5, Córdoba, Argentina (oral presentation)
Blanco, M.B., I. Bejan, I. Barnes, P. Wiesen and M.A. Teruel
Unsaturated esters in the atmosphere: kinetics and photooxidation mechanism with oh radicals
36. 9th Latin American Conference on Physical Organic Chemistry, (CLAFQO-9) 2007, September 30 - October 5, Córdoba, Argentina
Blanco, M.B., I. Bejan, I. Barnes, P. Wiesen and M.A. Teruel
The Cl-initiated oxidation of CH₂=CHOC(O)CH₃ and CH₂=CHCH₂OC(O)CH₃ in the troposphere: kinetics and product distribution
37. Invited Lecture at Faculty of Chemical Sciences, University National of Cordoba, 2007, 24 October, Bejan, I.
Investigations on the gas-phase chemistry of some selected nitroaromatic hydrocarbons.
38. Invited expert workshop. Nitrous acid: Tropospheric Chemistry, Measurement Methods and Future Directions, 2008, 3-5 March, Wuppertal, Germany
Bejan I., G. Villena Tapia, I. Barnes, T. Benter, P. Wiesen and J. Kleffmann
A new gas phase source of HONO : ortho-nitrosubstituted alkyl benzenes photolysis.

39. General Assembly, EUROPEAN GEOSCIENCES UNION, Geophysical Research Abstracts, Vol 10, EGU2008-A-00000, 2008, 13-18 April, Vienna, Austria
Villena Tapia, G., I. Bejan, P. Wiesen and J. Kleffmann
Intercomparison of a new ultra-sensitive NO₂-LOPAP against commercial NO₂ instruments and the FTIR technique
40. General Assembly, EUROPEAN GEOSCIENCES UNION, Geophysical Research Abstracts, Vol 10, EGU2008-A-09546, 2008, 13-18 April, Vienna, Austria (oral presentation)
Bejan, I., G. Villena Tapia, I. Barnes, Th. Benter, P. Wiesen and J. Kleffmann
The photolysis of alkyl nitroaromatics: A new gas phase source of HONO
41. General Assembly, EUROPEAN GEOSCIENCES UNION, Geophysical Research Abstracts, Vol 10, EGU2008-A-09060, 2008, 13-18 April, Vienna, Austria
Blanco, M.B., I. Bejan, I. Barnes, P. Wiesen and M. Teruel
Tropospheric chemical degradation of methyl acrylate and butyl methacrylate initiated by chlorine atoms
42. General Assembly, EUROPEAN GEOSCIENCES UNION, Geophysical Research Abstracts, Vol 10, EGU2008-A-09813, 2008, 13-18 April, Vienna, Austria
Bejan, I., M. Duncianu, I. Barnes, R. Olariu, P. Wiesen and T. Benter
Investigations on the atmospheric chemistry of nitrophenolic-type compounds.
43. The 20th International Symposium on Gas Kinetics, 2008, 20-25 July, Manchester, United Kingdom, (oral presentation)
Bejan I., G. Villena Tapia, I. Barnes, T. Benter, P. Wiesen and J. Kleffmann
Investigations on the Photolysis of ortho-Nitroalkylated aromatics: A new gas phase source of HONO.
44. The 20th International Symposium on Gas Kinetics, 2008, 20-25 July, Manchester, United Kingdom, Schürmann, A., I. Bejan, I. Barnes, M. Duncianu and T. Benter
Kinetic investigations of the OH-initiated oxidation of trimethylphenols between 283 and 313 K.
45. The 20th International Symposium on Gas Kinetics, 2008, 20-25 July, Manchester, United Kingdom
Blanco, B.M., I. Bejan, I. Barnes, P. Wiesen and M.A. Teruel
Rate Constants for the Reaction of OH Radicals with Selected Unsaturated Esters between 283 and 313K.
46. The 20th International Symposium on Gas Kinetics, 2008, 20-25 July, Manchester, United Kingdom
Blanco, B.M., I. Bejan, I. Barnes, P. Wiesen and M.A. Teruel
Kinetic Study of the Gas Phase reactions of Chlorine Atoms with a Series of Fluoroesters under Atmospheric Conditions.
47. XXVII Congreso Argentino de Química, 2008, 17-19 September, Tucuman, Argentina
Blanco, B.M., Bejan I., I. Barnes, P. Wiesen and M.A. Teruel
 α,β -unsaturated esters in the atmosphere: photooxidation initiated by chlorine atoms between 283 and 313 K.
48. Atmospheric Chemical Mechanisms, 2008, 10-12 December, 2008, Davis, USA
Bejan I., J.C. Wenger and I. Barnes
Product and Kinetic Investigations on the Gas Phase Chemistry of Dimethylated p-benzoquinones.
49. Atmospheric Chemical Mechanisms, 2008, 10-12 December, 2008, Davis, USA
Bejan I., G. Villena Tapia, I. Barnes, T. Benter, P. Wiesen and J. Kleffmann
Mechanistic Investigations on the Photolysis of Alkyl Nitrophenolic Compounds.
50. Atmospheric Chemical Mechanisms, 2008, 10-12 December, 2008, Davis, USA
Bejan I., M. Duncianu and I. Barnes
Phenoxy-Type Radical Formation from the Oxidation of Phenolic-Type Compounds - Investigations on Nitrophenols.
51. Atmospheric Chemical Mechanisms, 2008, 10-12 December, Davis, USA
Blanco, B.M., I. Bejan, I. Barnes, P. Wiesen and M.A. Teruel
On the Cl-Initiated Oxidation of α,β -Unsaturated Esters: A Temperature Dependence Study Under Atmospheric Conditions.

52. Final Meeting of the EUROCHAMP-1, 2009, May, Binz, Germany
I. Barnes, I. Bejan, P. Wiesen, M.B. Blanco, M. A. Teruel
Cl-atom and Oh radical initiated oxidation of the unsaturated esters: temperature dependent studies under atmospheric conditions
53. 10th Latin American Conference on Physical Organic Chemistry (CLAFQO10) 2009, 11-16 October, Florianópolis, Brasil
M. B .Blanco, I. Bejan, I. Barnes, P. Wiesen and M.A.Teruel
Atmospheric Chemical Mechanism of the Photooxidation of Fluoroacetates: A Source of Fluoroacetic Acids.
54. XVI Congreso Nacional de Fisico-Química y Química Inorgánica, 2009, 18-21 May, Salta, Argentina
M. B .Blanco, I. Bejan, I. Barnes, P. Wiesen and M.A.Teruel
Kinetic study of the atmospheric photooxidation of a series of fluoroacetates initiated by Cl atoms.
55. XVI Congreso Nacional de Fisico-Química y Química Inorgánica, 2009, 18-21 May, Salta, Argentina
M. B .Blanco, I. Bejan, I. Barnes, P. Wiesen and M.A.Teruel
Degradation mechanism of α,β -Unsaturated Esters in the atmosphere.
56. Goldschmidt 2009 Conference- "Challenges to Our Volatile Planet", 2009, Davos, Switzerland, 21-26 June (oral presentation)
Kourtchev, I., I. Bejan, J. Sodeau and J. Wenger
Ozonolysis of (E)-beta-Farnesene: Carbonyl products and secondary organic aerosol yields.
57. European Aerosol Conference, 2009, Karlsruhe, Germany, 6-11 September (oral presentation)
Kourtchev, I., I. Bejan, J.R. Sodeau, and J.C. Wenger
Gas/Particulate Phase Products and Secondary Organic Aerosol Yields from the Ozonolysis of (E)- β -Farnesene.
58. European Aerosol Conference, 2009, Karlsruhe, Germany, 6-11 September (oral presentation)
Bejan, I., I. Kourtchev, J.C. Wenger, I. Barnes, and J.R. Sodeau
Secondary Organic Aerosol Formation from the OH initiated Oxidation of Tolualdehydes and Dimethylphenols.
59. 1st Argentinean Workshop in Environmental Science, 2009, 23-25 November, Rosario, Argentina
M.B.Blanco, I. Bejan, I. Barnes, P. Wiesen and M. Teruel
Is the atmospheric degradation of fluoroesters a source of fluorocarboxylic acids in remote areas?
60. 10th Latin American Conference on Physical Organic Chemistry (CLAFQO), 2009, 11-16 October, Florianópolis, Brasil
M. B .Blanco, I. Bejan, I. Barnes, P. Wiesen and M.A.Teruel
Atmospheric Chemical Mechanism of the Photooxidation of Fluoroacetates: A Source of Fluoroacetic Acids.
61. The 21st International Symposium on Gas Kinetics, 2010, 18-22 July, Leuven, Belgium
Kourtchev, I., I. Bejan, J.R. Sodeau and J.C. Wenger
Gas Phase Reaction of OH radicals with (E)- β -Farnesene: Rate Coefficient, gas/particle phase products and mechanisms.
62. The 21st International Symposium on Gas Kinetics, 2010, 18-22 July, Leuven, Belgium
Ceacero-Vega, AA., B. Ballesteros, I. Bejan, I. Barnes and J. Albaladejo
Diurnal reaction of 1,8-cineole in the troposphere.
63. The 21st International Symposium on Gas Kinetics, 2010, 18-22 July, Leuven, Belgium
Ceacero-Vega, AA., B. Ballesteros, J. Albaladejo, I. Bejan and I. Barnes
Temperature dependence of the gas-phase reactions of Cl atoms with propene and 1-butene between $285 < T < 313$ K
64. The 21st International Symposium on Gas Kinetics, 2010, 18-22 July, Leuven, Belgium
Blanco, M., I. Bejan, I. Barnes, P. Wiesen and M.A. Teruel
Tropospheric photooxidation of fluoroesters: Product distribution at 298K.
65. The 21st International Symposium on Gas Kinetics, 2010, 18-22 July, Leuven, Belgium
Carey, T., A.B. Kenna, Sh. Zhou, I. Bejan and J.C. Wenger

66. The 21st International Symposium on Gas Kinetics, 2010, 18-22 July, Leuven, Belgium
Bejan, I., I. Barnes, R. Olariu and J.C. Wenger
 A kinetic study of the gas phase reactions of chlorine atoms with 1,2-benzenediols and benzoquinones.
67. International Aerosol Conference (IAC) 2010, 29th August – 3rd September, Helsinki, Finland
 Bejan, I., I. Kourtchev, I. Barnes, and J.C. Wenger
 Influence of radical source, seed aerosol and relative humidity on secondary organic aerosol formation the OH initiated oxidation of 2,6-dimethylphenol
68. 3rd EuCheMS Chemistry Congress, 2010, 29th August - 2nd September, Nürnberg, Germany
 M.B. Blanco, I. Bejan, I. Barnes, P. Wiesen and M.A. Teruel
 Tropospheric Photooxidation of Fluoroesters: product distribution at 298 K.
69. International Workshop on "Ozone - A Regional and Global Pollutant", 2010, September, Wengen, Switzerland,
 J. Wenger, I. Kourtchev, I. Bejan, J. R. Sodeau
 Simulation Chamber Studies of the Atmospheric Oxidation of Sesquiterpenes.
70. Atmospheric Chemical Mechanisms, 2010, 10-12 December, Davis, USA
 I. Barnes, B. Blanco, I. Bejan, M.A. Teruel and P. Wiesen
 Mechanistic study of the Gas-Phase Reactions of OH Radicals and Cl Atoms with Unsaturated Esters.
71. Atmospheric Chemical Mechanisms, 2010, 10-12 December, Davis, USA (oral presentation)
Bejan, I., G. Villena, H. Sonderfeld, T. Benter, I. Barnes, R. Koppmann, P. Wiesen and J. Kleffmann
 The Photolysis of Different Nitroaromatics: A daytime Source of HONO.
72. 5th International PTR-MS Conference on Proton Transfer Reaction Mass Spectrometry and its Applications, 2011, 26th January- 2nd February, Obergurgl, Austria
 Sonderfeld, H., R. Koppmann, I. Barnes, I. Bejan, Y. Elshorbany, R. Kurtenbach, S. Liedtke and P. Wiesen
 Characterization of a PTR-TOF-MS and its applications in laboratory experiments and fields measurements.
73. European Geosciences Union General Assembly, 2011, 3th – 8th April, Vienna, Austria
 M.B. Blanco, I. Bejan, I. Barnes, P. Wiesen and M.A. Teruel
 Atmospheric chemical mechanisms of the photooxidation of vinyl and allyl acetate initiated by Cl reactions.
74. Annual meeting of « Groupe Français de Cinétique et Photochimie en Phase Gazeuse », 2011, May, Lille, France
 A. Cassez, C. Coeur-Tourneur, A. Lauraguais, K. Kuprovskite, I. Bejan, I. Kourtchev, J. Wenger
 Characterization of the gas- and particle-phase products from the atmospheric oxidation of catechol
75. 59th ASMS Conference on Mass Spectrometry and Allied Topics, 2011, 5-9 June, Denver, Colorado, USA
 I. Barnes, H. Kersten, I. Bejan and T. Benter
 In-situ MS monitoring of atmospheric degradation product studies of aromatic hydrocarbons with APPI and APLI.
76. 59th ASMS Conference on Mass Spectrometry and Allied Topics, 2011, 5-9 June, Denver, Colorado, USA
 V. Derpmann, H. Sonderfeld, I. Bejan, H. Kersten, R. Koppmann, J. Kleffmann and T. Benter
 Highly efficient Ionization of Nitro-aromatic Compounds using Photoelectron induced Atmospheric Pressure Ionization (PAPI).
77. The 7th International Conference on Chemical Kinetics, 2011, 10-14 July, MIT Cambridge, MA USA
I. Bejan, A. Schürmann, I. Barnes, P. Wiesen and Th. Benter
 Temperature dependence of the rate coefficients of the OH-initiated oxidation of trimethylphenols between 283 and 313 K.
78. 10th Workshop in the Series "Urban Air Quality and Traffic" Atmospheric Composition and Processes in Contrasting Environments, 2011, 19-21 September, Cork, Ireland

79. Annual meeting of « Groupe Français de Cinétique et Photochimie en Phase Gazeuse », 2013, June, Orleans, France
A. Lauraguais, I. Bejan, I. Barnes, C. Coeur-Tourneur, A. Cassez,
Kinetic study in smog chamber of Cl atom reaction with methoxyphenols.
80. Journées Interdisciplinaires de la Qualité de l'Air", 2014, February, Lille, France
A. Lauraguais, I. Bejan, I. Barnes, C. Coeur-Tourneur, A. Cassez,
Kinetic study in smog chamber of Cl atom reaction with methoxyphenols.
81. 23rd International Symposium on Gas Kinetics and Related Phenomena, 2014, July 20th-25th, Szeged, Hungary
I. Bejan, F.A.F. Winiberg, S.C. Orr, C.A. Brumby, P.W. Seakins
Temperature dependent product yields of isoprene ozonolysis: methacrolein, methyl vinyl ketone, OH and HO₂ radicals.
82. 23rd International Symposium on Gas Kinetics and Related Phenomena, 2014, July 20th-25th, Szeged, Hungary
M. B. Blanco, I. Bejan, I. Barnes, P. Wiesen, M. Teruel
Products and Mechanism of the Reactions of OH Radicals and Cl Atoms with Methyl Methacrylate (CH₂=C(CH₃)C(O)OCH₃) in the Presence of NO_x
83. 23rd International Symposium on Gas Kinetics and Related Phenomena, 2014, July 20th-25th, Szeged, Hungary
S. Orr, T. Dillon, F. Winiberg, C. Brumby, I. Bejan, P. Seakins
Direct detection of OH yields from a temperature dependent study of the reaction of HOCH₂ O₂ + HO₂ in HIRAC
84. 23rd International Symposium on Gas Kinetics and Related Phenomena, 2014, July 20th-25th, Szeged, Hungary
J. Kelly, I. Bejan, S.C. Orr, C.A. Brumby, F.A.F. Winiberg, P.W. Seakins
Kinetic investigation of the gas-phase reactions of the Cl atom and OH radical with a series of alkylated cyclohexanes
85. Atmospheric Chemical Mechanisms "Simple Models-Real World Complexities", 2014, December 10-12, Davis, CA, USA
I. Bejan, F.A.F. Winiberg, S.C. Orr, C.A. Brumby, P.W. Seakins
Temperature Dependent Product Yields of Isoprene Ozonolysis: Methacrolein, Methyl Vinyl Ketone, Formaldehyde, OH and HO₂ Radicals
86. Atmospheric Chemical Mechanisms "Simple Models-Real World Complexities", 2014, December 10-12, Davis, CA, USA
M.B. Blanco, I. Bejan, I. Barnes, P. Wiesen and M.A. Teruel
Tropospheric Photooxidation of methyl methacrylate: Product distribution at 298K
87. Atmospheric Chemical Mechanisms "Simple Models-Real World Complexities", 2014, December 10-12, Davis, CA, USA
R.G. Gibilisco, I. Bejan, I. Barnes, P. Wiesen, M.B. Blanco, M. Teruel
FTIR Product study of the OH radical initiated reaction of Z-3-heptenol and E-3-hexenol under NO_x free conditions.

Raportor (2 puncte pentru fiecare activitate) nationale

26 puncte

1. 1st Romanian International Conference on Analytical Chemistry, 2000, 21-23 September, Brasov, Romania
Cucu-Man, S.; I. Bejan, E. Steinnes and R. Mocanu
Heavy Metal Atmospheric Deposition in Jassy Area Studied by the Moss Biomonitoring Technique.
2. The XXVIII National Chemistry Conferences, 2004, 6-8 October, Călimănești-Căciulata, Romania
Bejan, I., R.I. Olariu, I. Barnes and R. Mocanu

3. The III National Symposium with International Participations: Environment – Research, Protection and Management. Environment & Progress, 2004, 29-30 October, Cluj-Napoca, Romania
Olariu, R.I., I. Barnes, B. Klotz, I. Bejan, C. Arsene and K. Wirtz
Organic Aerosol Formation during the Atmospheric Degradation of Phenols.
4. The III National Symposium with International Participations: Environment – Research, Protection and Management. Environment & Progress, 2004, 29-30 October, CLUJ-NAPOCA, Romania
Bejan I., R.I. Olariu, I. Barnes and R. Mocanu
Atmospheric Implications of Nitroaromatic Compounds. Kinetics and Aerosols Formation.
5. Scientific Session of the University “Al. I. Cuza”, 2004, 28 - 30 October, Iasi, Romania
Bejan, I., R. Olariu, I. Barnes and R. Mocanu
Kinetic Investigations of 1,2-Dihydroxy(methyl)benzenes in Both Daytime and Nighttime Oxidation Processes and Its Atmospheric Implications.
6. Conference on Environmental Education; EnvEdu 2005, Trends in Environmental Education, 2005, 8-10 September, Brasov, Romania
Bejan, I., R.I. Olariu, C. Arsene, I. Barnes, R. Mocanu and K.H. Becker
Laboratory Simulation Chamber – A Microscale Atmosphere.
7. 3rd BLACK SEA BASIN CONFERENCE ON ANALYTICAL CHEMISTRY, “Process related environmental analytical chemistry”, 2005, 12-14 September, Constanta, Romania
Bejan, I., I. Barnes, R. Olariu, R. Mocanu and K.H. Becker
Aromatic Hydrocarbons Analysis Using FT-IR Techniques.
8. 3rd BLACK SEA BASIN CONFERENCE ON ANALYTICAL CHEMISTRY, “Process related environmental analytical chemistry”, 2005, 12-14 September, Constanta, Romania
Barnes, I., I. Bejan, R. Olariu, K.H. Becker and R. Mocanu
Atmospheric Chemistry of Aromatic Hydrocarbons.
9. ARCUS PHYCAFOR Programme - Summer School: Physics and Chemistry of the Atmosphere: from laboratory experiments to field campaigns, 2006, 2-14 July, Iasi, Romania,
Duncianu, M., I. Bejan, R. Olariu, R. Mocanu, I. Barnes and K.H. Becker
Gas-phase rate coefficients for the reaction of Cl atom with o-nitrophenols
10. ARCUS PHYCAFOR Programme - Summer School: Physics and Chemistry of the Atmosphere: from laboratory experiments to field campaigns, 2006, 2-14 July, Iasi, Romania
Bejan, I., M. Duncianu, R. Olariu, R. Mocanu, I. Barnes and K.H. Becker
New results on the atmospheric chemistry of nitroaromatic compounds
11. 7th Subregional meeting on effect-oriented activities in the countries of eastern and south-eastern Europe, 2006, 28 September - 1 October, Baia Mare, Romania
Duncianu, M., I. Bejan, R. Olariu, R. Mocanu, I. Barnes and K.H. Becker
New Results Regarding the Atmospheric Chemistry of Phenoxy-type Radicals
12. Third International Conference on Environmental Education, Trends in Environmental Education - EnvEdu 2006, 2006, 18-20 November, Brasov, Romania
Duncianu, M., I. Bejan, R. Olariu, R. Mocanu, I. Barnes and K.H. Becker
Kinetic Study on the Atmospheric Reactions of Cl Atoms with Methylated o-Nitrophenols
13. Faculty of Chemistry Conference, 2014, October 31 – November 01, Iasi, Romania
I. Bejan, I. Barnes, P. Seakins,
New investigations on the gas phase reactions important for atmosphere