

LISTĂ COMPLETĂ DE LUCRARI

a) Lista celor maxim 10 lucrări considerate relevante pentru realizările profesionale proprii

1. D. Castaldini, P. Bassi, P. Aschieri, **S. Tascu**, M. De Micheli, P. Baldi "*High performance mode adapters based on segmented SPE:LiNbO₃ waveguides*" Optics Express, Vol. 17, No. 20, pp 17868-17873, 2009. **IF=3.278**
2. V. Tiron, I-L. Velicu, I. Pana, D. Cristea, B. G. Rusu, P. Dinca, C. Porosnicu, E. Grigore, D. Munteanu, **S. Tascu** "*HiPIMS deposition of silicon nitride for solar cell application*" Surface & Coatings Technology vol. 344, pp. 197–203, 2018. **IF=3.192**
3. F. Gheorghiu, M. Simenas, C. Ciomaga, M. Airimioaei, V. Kalendra, J. Banys, M. Dobromir, S. Tascu, L. Mitoseriu "*Preparation and structural characterization of Fe-doped BaTiO₃ diluted magnetic ceramics*" Ceramics International vol. 43 (13), pp 9998-10005, 2017. **IF=3.057**
4. F. Gheorghiu, C. E. Ciomaga, M. Simenas, M. Airimioaei, S. Qiao, **S. Tascu**, V. Kalendra, J. Banys, O. G. Avadanei, L. Mitoseriu "*Preparation and functional characterization of magnetoelectric Ba(Ti_{1-x}Fe_x)O_{3-x/2} ceramics. Application for a miniaturized resonator antenna*" Ceramics International Vol. 44, Issue 17, pp 20862-20870, 2018. **IF=3.450**
5. A. P. Rambu, A. M. Apetrei, F. Doutre, H. Tronche, M. de Micheli, **S. Tascu** – "*Analysis of High-Index Contrast Lithium Niobate Waveguides Fabricated by High Vacuum Proton Exchange*" – Journal of Lightwave Technology, vol. 36 (13), pp. 2675-2684, 2018. **IF=4.162**
6. T. Lunghi, F. Doutre, A. P. Rambu, M. Bellec, M. P. de Micheli, A. M. Apetrei, O. Alibart, N. Belabas, **S. Tascu**, S. Tanzilli "*Broadband integrated beam splitter using spatial adiabatic passage*" Optics Express Vol. 26, No. 21, pp. 27058-27063, 2018. **IF=3.561**
7. A. M. Apetrei, A. P. Rambu, **S. Tascu** "*Evaluation of low index contrast in lithium niobate waveguides at telecom wavelengths*", Optics and Laser Technology vol. 111, pp 156–162, 2019. **IF=3.233**
8. A. P. Rambu, A. M. Apetrei, **S. Tascu** "*Role of the high vacuum in the precise control of index contrasts and index profiles of LiNbO₃ waveguides fabricated by high vacuum proton exchange*", Optics and Laser Technology vol. 118, pp 109–114, 2019. **IF=3.233**.
9. M. Airimioaei, V. Lukacs, I. Lisiecki, P. Beaunier, J. Blanchard, D. Lutic, **S. Tascu**, P. Postolache, M. Olariu, L. Mitoseriu "*Biomorphic tubular nickel oxide structures: Effect of the synthesis parameters on their structural and functional properties, surface-related applications*" Journal of Alloys and Compounds vol. 816, art nr. 152543, 2020. **IF=4.650**
10. A. P. Rambu, A. M. Apetrei, F. Doutre, H. Tronche, V. Tiron, M. de Micheli, **S. Tascu** "*Lithium niobate waveguides with high-index contrast and preserved nonlinearity fabricated by High Vacuum Vapor-phase Proton Exchange*" Photonics Research vol 8, no.1, pp 8-16, 2020. **IF=6.099**

b) brevete de invenție și alte titluri de proprietate intelectuală

- nu este cazul

c) cărți și capitole de cărți

- nu este cazul

d) articole publicate în extenso, în reviste din circuitul științific internațional

- indexate Web of Science cu Factor de Impact ISI

1. **S. Tascu**, R.J. Reeves, B. Jacquier, P. Moretti, R.M. Montereali, M. Piccinini, C. Seassal "*Near-field luminescence of colored centers processed in LiF by electron-beam lithography*" Journal de Physique IV France, vol. 12 (5), pp 301, 2002.
2. **S. Tascu**, R. J. Reeves, B. Jacquier, P. Moretti, R. M. Montereali, M. Piccinini, F. Somma, C. Seassal "*Near Field Optical Spectroscopy of Colored Centers Stripes Written in Lithium Fluoride by Electron-Beam Lithography*" Radiation Effects and Defects in Solids, vol. 157, pp 691, 2002.
3. **S. Tascu**, P. Moretti, S. Kostrikskii, B. Jacquier, "*Optical near-field measurements of guided modes in various processed LiNbO₃ and LiTaO₃ channel waveguides*" Optical Materials, vol. 24 (1-2), pp 297-302, 2003.
4. B. Vincent, A. Boudrioua, J.C. Loulergue, P. Moretti, **S. Tascu**, B. Jacquier, G. Aka, D. Vivien, "*Channel waveguides of Ca₄GdO(BO₃)₃ by He⁺ implantation for blue-light generation by frequency doubling*" Optics Letters vol. 28 (12), 2003.
5. P. Moretti, M.F Joubert, **S. Tascu**, B. Jacquier, M. Kaczkan, M. Malinowskii, J. Samecki, "*Luminescence of Nd⁺ in proton or helium implanted channel waveguides in Nd:YAG crystals*" Optical Materials, vol. 24 (1-2), pp 315-319, 2003.
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8. M. Szachowicz, **S. Tascu**, M.-F. Joubert, P. Moretti, M. Nikl "*Realization and infrared to green upconversion luminescence in Er³⁺:YAlO₃ ion-implanted optical waveguides*" Optical Materials, vol. 28, pp 162-166, 2006.
9. D. Castaldini, P. Bassi, **S. Tascu**, P. Aschieri, M. De Micheli, P. Baldi "*Soft Proton Exchange tapers for low insertion loss LiNbO₃ devices*" Journal of Lightwave Technology, vol.25, No 6, pp 1588-1593, 2007.
10. D. Castaldini, P. Bassi, **S. Tascu**, G. Sauder, P. Aschieri, M. de Micheli, P. Baldi, K. Thyagarajan, M. R. Shenoy, "*All-in-one measurement setup for fast and accurate characterization of linear guided-wave optical devices*" Optical Engineering, Volume 46, Issue 12, p. 124601, 2007.
11. M.A. Dolbilov, V. Ya. Shur, E.I. Shishkin, M. F. Sarmanova, E. V. Nikolaeva, **S. Tascu**, P. Baldi, M.P. de Micheli, "*Influence of surface layers modified by proton exchange on domain kinetics of lithium niobate*" Ferroelectrics, Vol. 374, Issue 1, pp158-163, 2008.

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13. C. Michel, V. Doya, **S. Tascu**, W. Blanc, O. Legrand, F. Mortessagne *"Controlled excitation of scar modes in passive and active multimode chaotic fiber"* Applied Optics, Vol. 48, No. 31, pp G163 – G168, 2009.
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15. M. A. Dolbilov, E. I. Shishkin, V. YA. Shur, **S. Tascu**, P. Baldi, M. P. De Micheli *"Abnormal Domain Growth in Lithium Niobate with Surface Layer Modified by Proton Exchange"* Ferroelectrics, Vol. 398, Issue 1, pp108-114, 2010
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23. F. Tudorache, I Petrila, P.D. Popa, **S. Tascu** *"Influence of thermal treatment on the structure, humidity sensitivity, electrical and magnetic properties of barium–tungsten ferrite"* Composites: Part B. Vol 51, pp. 106-111, 2013.
24. I. Petrila, F. Tudorache, **S. Tascu** *"Micromagnetic investigation of all-optical switching"* Physics Letters A, vol. 337, pp. 1495-1498, 2013.
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26. C. E. Ciomaga, L. Padurariu, L. P. Curecheriu, N. Lupu, I. Lisiecki, M. Deluca, **S. Tascu**, C. Galassi, L. Mitoseriu *"Using multi-walled carbon nanotubes in spark plasma sintered $Pb(Zr_{0.47}Ti_{0.53})O_3$ ceramics for tailoring dielectric and tunability properties"* Journal of Applied Physics, vol 116, pp. 164110, 2014.
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32. M. Airimioaei, R. Stanculescu, V. Preutu, C. Ciomaga, N. Horchidan, **S. Tascu**, D. Lutic, A. Pui, L. Mitoseriu *"Effect of particle size and volume fraction of $BaTiO_3$ powders on the functional properties of $BaTiO_3$ /poly(ϵ -caprolactone) composites"* Materials Chemistry and Physics vol. 182, pp. 246-255, 2016.
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35. V. Tiron, I-L. Velicu, I. Pana, D. Cristea, B. G. Rusu, P. Dinca, C. Porosnicu, E. Grigore, D. Munteanu, **S. Tascu** *"HiPIMS deposition of silicon nitride for solar cell application"* Surface & Coatings Technology vol. 344, pp. 197–203, 2018.
36. A. P. Rambu, A. M. Apetrei, F. Doutre, H. Tronche, M. de Micheli, **S. Tascu** – *"Analysis of High-Index Contrast Lithium Niobate Waveguides Fabricated by High Vacuum Proton Exchange"* – Journal of Lightwave Technology, vol. 36 (13), pp. 2675-2684, 2018.
37. M. Glod, D. Damir, S. Nichitus, G. Calin, L. D. Duceac, D. L. Gorgan, **S. Tascu**, M. I. Ciuhodaru, *"ZnO and TiO_2 Nanoparticles Genotoxicity According to their Structural and Morphological Characteristics Used for Medical Purposes"* Revista de Chimie, vol 69, Issue 3, Pages 609-611, 2018.
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magnetolectric Ba(Ti_{1-x}Fe_x)O_{3-x/2} ceramics. Application for a miniaturized resonator antenna" Ceramics International Vol. 44, Issue 17, pp 20862-20870, 2018

39. T. Lunghi, F. Doutre, A. P. Rambu, M. Bellec, M. P. de Micheli, A. M. Apetrei, O. Alibart, N. Belabas, **S. Tascu**, S. Tanzilli "*Broadband integrated beam splitter using spatial adiabatic passage*" Optics Express Vol. 26, No. 21, pp. 27058-27063, 2018.
40. A. M. Apetrei, A. P. Rambu, **S. Tascu** "*Evaluation of low index contrast in lithium niobate waveguides at telecom wavelengths*", Optics and Laser Technology vol. 111, pp 156–162, 2019.
41. C. E. Ciomaga, M. Airimioaei, I. Turcan, A. V. Lukacs, **S. Tascu**, M. Grigoras, N. Lupu, J. Banys, L. Mitoseriu "*Functional properties of percolative CoFe₂O₄-PbTiO₃ composite ceramics*", Journal of Alloys and Compounds vol. 775, pp 90-99, 2019.
42. A. P. Rambu, A. M. Apetrei, **S. Tascu** "*Role of the high vacuum in the precise control of index contrasts and index profiles of LiNbO₃ waveguides fabricated by high vacuum proton exchange*", Optics and Laser Technology vol. 118, pp 109–114, 2019.
43. A. P. Rambu, A. M. Apetrei, F. Doutre, H. Tronche, V. Tiron, M. de Micheli, **S. Tascu** "*Lithium niobate waveguides with high-index contrast and preserved nonlinearity fabricated by High Vacuum Vapor-phase Proton Exchange*" Photonics Research vol 8, no.1, pp 8-16, 2020.
44. M. Airimioaei, V. Lukacs, I. Lisiecki, P. Beaunier, J. Blanchard, D. Lutic, **S. Tascu**, P. Postolache, M. Olariu, L. Mitoseriu "*Biomorphic tubular nickel oxide structures: Effect of the synthesis parameters on their structural and functional properties, surface-related applications*" Journal of Alloys and Compounds vol. 816, art nr. 152543, 2020.
45. T. Sekrafi, Z. Denden, F. Tudorache, **S. Tascu**, H. Nasri, Chérif Dridi "*ZnTTP electrical properties and application in humidity sensor development*" Superlattices and Microstructures, vol. 140, art. nr. 106462, 2020.

- alte articole publicate în extenso în reviste din circuitul științific internațional

1. **S. Tascu**, P. Moretti, B. Jacquier, M. Wesner, D. Kip "*Spatial Optical Soliton Propagation in He-Implanted SBN Waveguides Investigated by Scanning Near-Field Optical Microscopy*" Photorefractive Effects, Materials, and Devices, Optical Society of America, OSA Trends in Optics and Photonics, vol. 87, pp. 398-403, 2003.
2. S. Kostritskii, Yu. N. Korkishko, V.A. Fedorov, A. N. Alkaev, V. S. Kritzak, P. Moretti, **S. Tascu**, B. Jacquier "*Leakage of a guided mode caused by static and light-induced inhomogeneities in channel HTPE-LiNbO₃ waveguides*" Integrated Optical Devices: Fabrication and Testing, Giancarlo C. Righini, Editor Proceedings of SPIE, vol. 4944, pp 346-352, 2003.
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5. **S. Tascu**, P. Moretti, M. Piccinini, B. Jacquier, R. M. Montereali, F. Somma "*Visualization by SNOM technique of optical modes in LiF channel waveguides*" Phys. Stat. Sol. C, No. 1, pp 633–636, 2005.
6. G. Bertocchi, D. Castaldini, **S. Tascu**, D. B. Ostrowsky, S. Tanzilli, P. Baldi, "*Integrated-Optics Quantum Relay: Preliminary Results*" ECOC 2006 European Conference on Optical Communication 24 - 28 Septembre 2006, Cannes, France.
7. D Castaldini, P. Bassi, G. Bertocchi, **S. Tascu**, P. Aschieri, M. De Micheli, S. Tanzilli, P Baldi "*Segmented waveguide tapers for low insertion loss, high performance SPE:LiNbO3 integrated circuits*" 13th European Conference on Integrated Optics and Technical Exhibition, ECIO'07 Copenhagen 2008.
8. S. Tanzilli, **S. Tascu**, P. Aboussouan, O. Alibart, M.P. De Micheli, D.B Ostrowsky, P. Baldi "*Advances in quantum communication using integrated optics*" 14th European Conference on Integrated Optics and Technical Exhibition, ECIO'08 Eindhoven 2008.
9. M. Tournier, O. Alibart, F. Dautre, **S. Tascu**, M.P. De Micheli, D.B. Ostrowsky, K. Thyagarajan, S. Tanzilli "*Up-conversion detectors at 1550 nm for quantum communication: review and recent advances*" European Astronomical Society Publications Series, Vol. 37, pp 311-339, 2009.
10. N. Iftimie, **S. Tascu**, I. Salaoru, R. Steigmann, A. Savin, M. Irimia, F. Iacomì "*The evanescent waves in metallic strip gratings and complex structures in subwavelength regime*" The Selected Papers of 10th International Conference on Physics of Advanced Materials, ICPAM-10, Materials Today: Proceedings 2, pp. 3846-3852, 2015

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În calitate de invitat

1. **S. Tascu**, O. Alibart, S. Tanzilli, M. de Micheli, D.B. Ostrowsky, P. Baldi, "*Proton exchanged PPLN waveguides: fabrication techniques and application to quantum communications*", Intl Colloquium on Lithium Niobate – Metz, Franța – 23-25/05/2005.
2. M. De Micheli, **S. Tascu**, S. Tanzilli, P. Baldi, "*Quasi-accord de phase à courtes périodes*", JNCO'05 – Valpré, Franța – 12-14/12/05.
3. M. De Micheli, O. Alibart, D.B. Ostrowsky, **S. Tascu**, S. Tanzilli, P. Baldi, "*Integrated optics on lithium niobate for quantum communications*" CEFIPRA workshop – Bangalore (India) – 4-8/01/2006.
4. S. Tanzilli, G. Bertocchi, P. Aboussouan, O. Alibart, M. De Micheli, D.B. Ostrowsky, **S. Tascu**, P. Baldi; R.T. Thew, M. Halder, H. Zbinden, N. Gisin, "*Advances in quantum communication using integrated optics*", Photonics'06 - Hyderabad (India) – 13-16/12/2006.

5. S. Tanzilli, P. Aboussouan, O. Alibart, **S. Tascu**, P. Baldi, M. De Micheli, D. Ostrowsky; R. Thew, M. Halder, H. Zbinden, N. Gisin, "*Advances in quantum communication using integrated optics*", LPHYS'07 – Leon, Mexico - 20-24/08/2007.
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7. S. Tanzilli, **S. Tascu**, P. Aboussouan, O. Alibart, M. De Micheli, D. Ostrowsky, P. Baldi, "*Advances in quantum communication using integrated optics: first results with a quantum relay chip*", ECIO'08 – Eindhoven, The Netherlands – 11-13/06/2008.
8. **S.Tascu**, M. de Micheli, "*Le niobate de lithium: un matériau fonctionnel pour l'optoélectronique*" 5^e Salon Régional Matériaux Innovants et Technologies Associées, 11-12 Mai 2005, Toulon, France.
9. A. P. Rambu, A. M. Apetrei, F. Doutre, H. Tronche, M. de Micheli, **S. Tascu** "*High-index variation of nonlinear waveguides fabricated by high vacuum proton exchange (HiVacPE) in lithium niobate crystals*" International Conference in Physics TIM18 Physics Conference, May 24-26, 2018, Timișoara, Romania.
10. A. P. Rambu, A. M. Apetrei, F. Doutre, H. Tronche, M. de Micheli, **S. Tascu** "*High vacuum Proton Exchange (HiVacPE) in lithium niobate crystals for high-index contrast nonlinear waveguides*" 12th International Conference on Physics of Advanced Materials (ICPAM 12), September 22 – 28, 2018, Heraklion, Greece.

Prezentare orală sau poster

1. A. Boudrioua, B. Vincent, J.C. Loulergue, P. Moretti, **S. Tascu**, B. Jacquier, G. Aka, D. Vivien "*Doublage de fréquence dans les guides canaux de $Ca_4GdO(BO_3)_3$ (GdCOB) fabriqués par implantation d'hélium*" OPTIX 2001 Marseille, France.
2. **S. Tascu**, R.J. Reeves, B. Jacquier, P. Moretti, R.M. Montereali, M. Piccinini, C. Seassal "*Luminescence en champ proche optique de centres colorés produits dans du Fluorure de Lithium par lithographie électronique*" COLOQ7, 5-7 September 2001, Rennes, France.
3. **S. Tascu**, P. Moretti, S. Kostritskii, M. Martin, B. Jacquier "*Caractérisation par microscopie en champ proche optique de guides d'onde optique de $LiNbO_3$ et $LiTaO_3$* ", JNOG 2002 Dijon, France.
4. M. Martin, T. Benyattou, R.Orobtchouk, F. Rooms, A. Morand, I. Schannen, **S. Tascu** "*Caractérisation par microscopie en champ proche optique de structures MMI*" JNOG 2002 Dijon, France.
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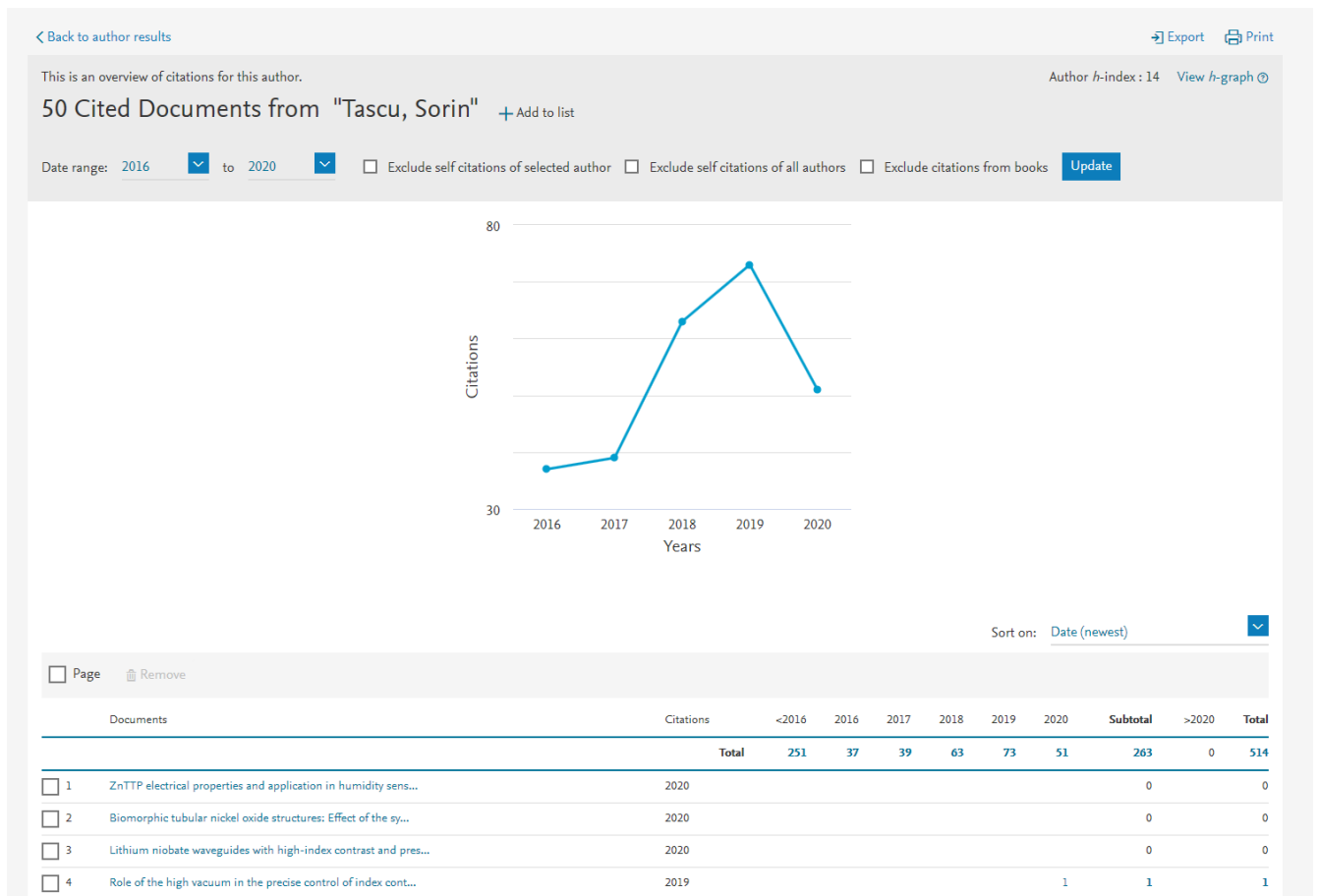
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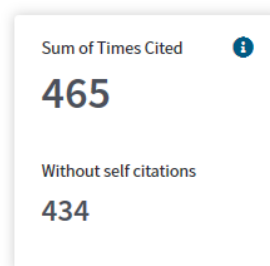
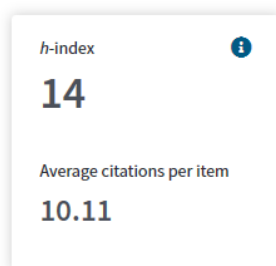
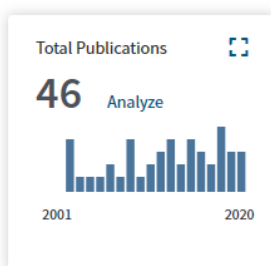
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