

ANEXA 1

Fișa de evaluare generala a standardelor universității

Subsemnata Dr .ing. Loredana Brinza (cas Tepes) declar ca intrunesc conditiile standardelor minime pe domenii ale Universitatii pentru pozitia de cercetator stiintific in cadrul Departamentului Interdisciplinar - Stiinte, Domeniul Chimie, conform Anexei 2b din Metodologia de concurs, pentru ocuparea posturilor de cercetator stiintific pe durată nedeterminată în Universitatea „Alexandru Ioan Cuza” din Iași., cu modificarile ulterioare conform Hotararii Senatului Universitatii „Alexandru Ioan Cuza” din Iasi nr 6 din data de 30.03.2017

- a) Detinerea diplomei de doctor in domeniul stiintific postului sau in domenii conexe in cazul posturilor interdisciplinare, daca contributiile stiintifice sunt in concordanta cu descrierea postului si domeniul stiintific pentru care candideaza.

Denumirea criteriului	Conditii minime	Conditii / criterii ealizate	Indeplinire a criteriului
Detinere diplomei de doctor pe domeniu postului sau domenii conexe	diploma de doctor	Diploma de doctor in Stiintele Pamantului Loredana Brinza, 2010, Interactions of molybdenum and vanadium with iron nanoparticles, PhD thesis, University of Leeds, United Kingdom, ISBN: 978-0-85731-019-4 (teza publicata on line la: http://etheses.whiterose.ac.uk/1082/1/LBrinza_PhD_thesis.pdf)	Criteriu indeplinit
		Diploma de doctor in Inginerie chimica Loredana Brinza, 2011, Bioremedierea recuperativă prin biosorbție a factorilor de mediu poluați cu metale (Recuperative Bioremediation Of Metals From Environmental Components using Biosorption), PhD thesis, Gh Asachi, Technical University Iasi, Romania (Rezumat teza publicat on line la: http://www.tuiasi.ro/users/110/TD_BrinzaL2011.pdf)	Criteriu indeplinit

b) Îndeplinirea standardelor Universitatii pe domenii, prevazute in Anexa 2

Standardele universitatii pe domeniul Chimie

Facultatea/ Departamentul	Funcția de cercetare: cercetător științific -		
- Domeniul Chimie	Standarde minime standarde pentru postul de cercetator stiitific	Standarde realizate	Îndeplinirea standardului
	-3 articole științifice publicate în extenso în reviste internaționale, din care 2 indexate in reviste Web of Science cu factor de impact	- 13 lucrari publicate in reviste cotate ISI dintre care 10 ca prim autor	Standard indeplinit
	-membru în echipa unui proiect de cercetare cu finanțare obținută prin competiție	- membru in cadrul a 23 de proiecte internationale si nationale cu finantate optinuta prin competitie	Standard indeplinit

Data: 04.12.2017

Semnatura



Anexa 1. FIȘA DE EVALUARE GENERALĂ CONFORM STANDARDELOR UNIVERSITĂȚII

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
I. ACTIVITATE A DE CERCETARE (70%)	1. Articole științifice publicate <i>in extenso</i> în reviste cotate <i>Web of Science</i> cu factor de impact	588,703
	2. Articole științifice publicate <i>in extensor</i> în reviste indexate <i>Web of Science</i> fără factor de impact	3,538
	3. Articole științifice publicate <i>in extenso</i> în reviste indexate BDI	11,250
	5. Cărți științifice publicate (doar prima ediție)	200,000
	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)	576,787
	10. Contracte de cercetare în mediul de afaceri și sectorul public	-
	11. Brevete	-
	12. Citări și recenzii ale lucrărilor științifice	3830,766
	13. Lucrări susținute în calitate de invitat la manifestări științifice (conferințe, congrese, simpozioane, seminarii și ateliere de lucru)	85,000
	14. Profesor/cercetător invitat la universități/institute de cercetare	50,000
	15. Editor/Membru în Editorial Board & Advisory Board	-
	16. Premii internaționale obținute printr-un process de selecție	136,666
	17. Premii ale Academiei Române	
	18. Alte premii naționale ale instituțiilor culturale	
	19. Participări la manifestări științifice	190,000
TOTAL I		5672,710
II. ACTIVITATE A DIDACTICĂ (30%)	1. Tratate și manuale universitare	-
	2. Proiecte didactice (înființare/dotare laboratoare licență, master, săli workshop, biblioteci proprii facultăților, departamentelor, laboratoarelor și grupurilor de cercetare)	-
	3. Materiale suport curs, seminar, lucrări practice și programe analitice detaliate	-
	4. Organizare de aplicații și practică de specialitate	10,000
TOTAL II		10,000
TOTAL I+II=		5682,710

Data: 04/12/2017

Semnatura:



CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
I. ACTIVITATE A DE CERCETARE (70%)	1. Articole științifice publicate <i>in extenso</i> în reviste cotate <i>Web of Science</i> cu factor de impact	(60 puncte x factor de impact + 25) / număr autori
	1. <u>Loredana Brinza</u> , Hong P. Vu, Samuel Shaw, J. Fred W. Mosselmans, Liane G. Benning, 2015, The effect of molybdenum and vanadium on the hydrothermal crystallization of hematite from ferrihydrite at seawater pH and ionic strength - an in situ EDXRD and XAS study, <i>Crystal Growth and Design</i> , <i>accepted</i> ; FI: 4,055/2016;	(60x4,055+25)/5= 53,660
	2. <u>Loredana Brinza</u> , Frederick J. W. Mosselmans, Paul F. Schofield, Erica Donner, Enzo Lombi, Mark E. Hodson, 2014, Can earthworm-secreted calcium carbonate immobilise Zn in contaminated soils?, <i>Soil Biology and Biochemistry</i> , 74, 1-10, DOI: 10.1016/j.soilbio.2014.01.012; FI: 4,857/2016	(60x4,857+25)/6= 52,736
	3. <u>L. Brinza</u> , P. F. Schofield, M. E. Hodson, S. Weller, K. Ignatyev, K. Geraki, P. D. Quinn, J. F. W. Mosselmans, 2014, Combining μ XANES and μ XRD mapping to analyse the heterogeneity in calcium carbonate granules excreted by the earthworm <i>Lumbricus terrestris</i> <i>Journal of Synchrotron Radiation</i> , 01/2014, 21, 235-41; DOI:10.1107/S160057751303083X, FI: 3,011/2016;	(60x3,011+25)/8= 25,707
	4. Hong Phuc Vu, Samuel Shaw, <u>Loredana Brinza</u> , Liane G Benning, 2013, Partitioning of Pb (II) during goethite and hematite crystallisation: implication for Pb transport in natural systems, 2013 <i>Applied Geochemistry</i> , 39, 119-128; DOI:10.1016/j.apgeochem.2013.10.001, FI: 2,581/2016;	(60x2,581+25)/4= 44,965
	5. <u>Loredana Brinza</u> , Paul D. Quinn, Paul F. Schofield, Frederick J. W. Mosselmans, Mark E. Hodson, 2012, Incorporation of strontium in earthworm-secreted calcium carbonate granules produced in strontium-amended and strontium-bearing soil, <i>Geochimica et Cosmochimica Acta</i> , 113 21-37, DOI: 10.1016/j.gca.2013.03.011, FI: 4,609/2016;	(60x4,609+25)/5= 60,308
	6. Rob Raiswell, Hong Phuc Vu, <u>Loredana Brinza</u> , Liane Benning, (2010), The determination of Fe in ferrihydrite by ascorbic acid extraction: methodology, dissolution kinetics and loss of solubility with age and de-watering, <i>Chemical Geology</i> , Vol 278, 1-2, 70-79 doi:10.1016/j.chemgeo.2010.09.002, FI: 3,347/2016;	(60x3,317+25)/4= 56,455
	7. Vu Hong Phuc, Shaw Samuel, <u>Brinza Loredana</u> , Benning Liane G., (2010), The crystallization of hematite (α -Fe ₂ O ₃) under alkaline condition: the effects of Pb" <i>Crystal Growth and Design</i> , Vol 10, No 4, 1544–1551, DOI: 10.1021/cg900782g, FI: 4.055/2016;	(60x4,055+25)/4= 67,075
	8. <u>Loredana Brinza</u> , Charlotta A. Nygard, Matthew J. Dring, Liane G. Benning, Maria Gavrilescu, (2009), Cadmium tolerance and adsorption by the marine brown alga <i>Fucus vesiculosus</i> from the Irish Sea and the Bothnian Sea, <i>Bioresource Technology</i> , Vol. 100, No 5, 1727-1733,	(60x5,651+25)/5= 72,812

	doi:10.1016/j.biortech.2008.09.041 , FI: 5,651/2016;	
	9. <u>Loredana Brinza</u> , Liane G. Benning, Peter J. Statham, (2008), Adsorption studies of Mo and V onto ferrihydrite, <u>Loredana Brinza</u> , Liane G. Benning, Peter J. Statham, (2008), Adsorption studies of Mo and V onto ferrihydrite, Mineralogical Magazine , Vol. 72, No1, 107–110; doi:10.1180/minmag.2008.072.1.385 , FI: 1,285/2016;	$(60 \times 1,285 + 25) / 3 = \mathbf{34,033}$
	10. <u>Loredana Brinza</u> , Matthew J. Dring, Maria Gavrilescu, (2007), Marine micro and macro algal species as biosorbents for heavy metals treatment - review, Environmental Engineering and Management Journal , Vol. 6, No. 3, 237-251, FI: 1,096/2016;	$(60 \times 1,096 + 25) / 3 = \mathbf{30,253}$
	11. Simona Pintilie, <u>Loredana Brinza</u> , Camelia Betianu, Lucian Vasile Pavel, Florina Ungureanu, Maria Gavrilescu, (2007), Modelling and simulation of heavy metals transport in water and sediments, Environmental Engineering and Management Journal , Vol. 6, No. 2, 153-161, FI: 1.096/2016;	$(60 \times 1,096 + 25) / 6 = \mathbf{15,126}$
	12. <u>Loredana Brinza</u> , Matthew J. Dring, Maria Gavrilescu, (2005), Biosorption of Cu (2+) ions from aqueous solution by- <i>Enteromorpha</i> sp, Environmental Engineering and Management Journal , Vol.4, No.1, 41-51, FI: 1.096/2016;	$(60 \times 1,096 + 25) / 3 = \mathbf{30,253}$
	13. <u>Loredana Brinza</u> , Maria Gavrilescu, (2003), pH Effect on the Biosorption of Cu (2+) from Aqueous Solution by <i>Saccharomyces Cerevisae</i> , Environmental Engineering and Management Journal , Vol.2, No.3, 243-254, FI: 1.096/2016;	$(60 \times 1,096 + 25) / 2 = \mathbf{45,38}$
	TOTAL 1	588,703
	2. Articole științifice publicate in extensor în reviste indexate Web of Science fără factor de impact	20 puncte / număr autori
	1. Mark E Hodson, Stuart Black, <u>Loredana Brinza</u> , Daniel Carpenter, Denise C. Lambkin, J. Fred W Mosselmans, Barbara Palumbo-Roe, Paul F Schofield, Tom Sizmur, Emma A Versteegh, 2014, Biology as an agent of chemical and mineralogical change in soil, Procedia Earth and Planetary Science . 10, 114 – 117,	$20 / 10 = \mathbf{2,000}$
	2. Sofia Diaz-Moreno, M. Amboage, R. Boada-Romero, <u>L. Brinza</u> , G. Cibin, A. Dent, A. Freeman, T. Geraki, S. Hayama, F. Mosselmans, S. Parry, P. Quinn and S. Ramos (2012), X-Ray Absorption Spectroscopy at Diamond Light Source: Three Complementary Beamlines to Deliver a Comprehensive Service, XAS Research Review , 3,	$20 / 13 = \mathbf{1,538}$
	TOTAL 2	3,538

	3. Articole științifice publicate <i>in extenso</i> în reviste indexate BDI	15 puncte / număr autori
	1. Camelia Betianu, <u>Loredana Brinza</u> , Vasile Lucian Pavel, Maria Gavrilăscu, (2007) Partition and sorption of heavy metals to soils, Analele USAMV, vol. 50, seria Agronomie , Editura „Ion Ionescu de la Brad”, Iași, 2007, ISSN 1454-7414, FI: CNCSIS (B+)	15/4 = 3,750
	2. <u>Loredana Brinza</u> , Maria Gavrilăscu, Studies of Heavy Metal Recovery by Biosorption, (2003), Bulletin of the Polytechnic Institute of Iasi Tomul XLVII (LII), fasc. 1B, <i>Chemistry and Chemical Engineering</i> , 250-256 ISSN: 0254 – 7104 , FI: CNCSIS (B+)	15/2 = 7,500
	TOTAL 3	11,250
	4. Articole științifice publicate <i>in extenso</i> în volumele conferințelor	indexate ISI: 30 puncte / număr autori indexate în BDI: 15 puncte/ număr autori alte categorii: 5 puncte / număr autori
	5. Cărți științifice publicate (doar prima ediție)	edituri academice internaționale: 100 puncte la 100 pagini / număr autori alte edituri internaționale: 70 puncte la 100 pagini / număr autori edituri academice naționale: 50 puncte la 100 pagini / număr autori alte edituri naționale: 20 puncte la 100 pagini / număr autori
	1. Loredana Brinza, 2010, Interactions of molybdenum and vanadium with iron nanoparticles , University of Leeds, United Kingdom, White Rose Publisher, ISBN: 978-0-85731-019-4, (http://etheses.whiterose.ac.uk/1082/)	200,000
	TOTAL 5	200,000

	6. Cărți științifice traduse și publicate în edituri din străinătate	100 puncte la 100 pagini / număr autori
	7. Coordonarea și editarea de volume, traduceri și antologii	edituri academice internaționale: 60 puncte / număr autori alte edituri internaționale: 40 puncte / număr autori edituri academice naționale: 30 puncte / număr autori alte edituri naționale: 15 puncte / număr autori
	8. Articole publicate în dicționare și enciclopedii	edituri academice internaționale: 30 puncte / număr autori alte edituri internaționale: 20 puncte / număr autori edituri academice naționale: 15 puncte / număr autori alte edituri naționale: 5 puncte / număr autori
	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)	contracte internaționale – director: 100 puncte pentru fiecare 100.000 Euro contracte internaționale – membru: 100 puncte pentru fiecare 100.000 Euro / numărul membrilor echipei de cercetare contracte naționale – director: 50 puncte pentru fiecare 500.000 lei contracte naționale – membru: 50 puncte pentru fiecare 500.000 lei /

		numărul echipei de cercetare	membrilor
	1. Science & Technology Facilities Council (STFC), grant ref no SP15771, 2017, for research at the Diamond Light Source, UK Synchrotron facility at beam line i18-Microfocus spectroscopy: Microscopic and spectroscopic investigation of Zn uptake by algae,: Dr. Loredana Brinza Tepes (PI), Dr. Tina Geraki and Prof. Liane G. Benning – equivalent of 45000GBP (~ 61648E) – principal investigator	61648*100/100000 =	61,648
	2. Science & Technology Facilities Council (STFC) grant ref no SP5906-1, 2013 for research at the Diamond Light Source, UK Synchrotron facility at beam line B18- Core XAS – Pb and Zn XAS in iron based minerals, Prof. Mark E Hodson-PI, Prof. Fred Mosselmans, David Hughes, Dr. Loredana Brinza, Dr. Liz Shaw, ca 11250 GBP (~15412 E), 26 June 2013 – team member.	15412*100/100000 /5 =	15,415
	3. Science & Technology Facilities Council (STFC) grant no SP5906-1 for research at the Diamond Light Source, UK Synchrotron facility at beam line B18- Core XAS – Pb and Zn XAS in iron based minerals, Prof. Mark E Hodson-PI, Prof. Fred Mosselmans, David Hughes, Dr. Loredana Brinza, Dr. Liz Shaw, ca 11250 GBP (~15412 E), 20 March 2013 – team member.	15412*100/100000 /5 =	15,415
	4. Science & Technology Facilities Council (STFC) grant no NT3894-1, 2013 for research at the Diamond Light Source, UK Synchrotron facility at beam line i18-Microfocus spectroscopy – The effect of Mg and P on the mineralogy of calcium carbonate bio mineralized granules: a micro spatial characterization by s-XRD and s-Ca XANES, Dr. Loredana Brinza-PI, Prof. Fred Mosselmans, Dr. Paul F. Scofield, Prof. Mark E. Hodson, ca. 32130 GBP (~44018 E), 23-25 May 2013, principal investigator.	44018*100/100000 =	44,018
	5. Science & Technology Facilities Council (STFC) research grant no RcaH R18, 3 months access to Research Complex at Harwell, UK to investigate “Microscopic and spectroscopic investigation of biomineralized calcium carbonates polymorphs” Dr. Loredana Brinza-PI, Prof. Fred Mosselmans, 15.09.2012-15.12.2012–principal investigator		

	6. Science & Technology Facilities Council (STFC) grant CM-5712-5, 2012 for in house research at the Diamond Light Source, UK Synchrotron facility to test improvements to s-XRD technique at the beam line i18-Microfocus spectroscopy, Prof. Fred Mosselmans, Dr. Loredana Brinza, Dr.Tina Geraki, Dr. Konstantin Ignatiev, ca 11250 GBP (~15412 E), December 2012– team member.	$15412 \times 100 / 100000 / 4 = \mathbf{19,268}$
	7. Science & Technology Facilities Council (STFC) grant No SP7755 for research at the Diamond Light Source, UK Synchrotron facility to carry out XAS and s-XRD experiments on “Ca-XANES maps and synchrotron diffraction on earthworms biomineralized calcium carbonates granules “at the beam line i18-Microfocus spectroscopy, Prof. Fred Mosselmans –PI, Loredana Brinza, Dr. Paul F. Schofield; Prof. Mark E Hodson, ca. 45000 GBP (~61650 E), 20-24 th September 2012– team member.	$61650 \times 100 / 100000 / 4 = \mathbf{15,415}$
	8. French Société civile grant no EC-870 for 4 days beamtime at the ESRF, France to carry out research on “Se-XAS in UK and China Se-rich shells” at the beamline ID22. Prof. Liane G Benning –PI, Dr Loredana Brinza, Dr Samwel Allsorn, ca. 51300 E 22-26 th June 2012 – team member	$51300 \times 100 / 100000 / 3 = \mathbf{17,100}$
	9. Science & Technology Facilities Council (STFC) grant No NT5731-1 for 3 days beam time at the Diamond Light Source, UK Synchrotron facility to carry out XAS experiments on “Zn and Cu sequestration in earthworm excreted calcium carbonates granules: elemental XRF maps, Ca, Zn and Cu XAS “ at the beam line i18-Microfocus spectroscopy, Dr. Loredana Brinza-PI, Prof. Fred Mosselmans; Dr. Paul F. Schofield; Dr. Paul D. Quinn, Prof. Mark E Hodson, ca 32130 GBP (~44018 E), 20-24 th February 2012– principal investigator.	$44018 \times 100 / 100000 = \mathbf{44,018}$
	10. Australian Synchrotron grant No AS121/XFM/4559 for 3 days beamtime at the Australian Synchrotron Facility to carry out elemental XRF, Zn and Cu-XANES mapping on “Metal incorporation in earthworm-secreted calcium carbonate granules”, Dr. Erica Donner-PI, Dr. Enzo Lombi, Prof. Fred Mosselmans; Dr. Paul D. Quinn; Dr. Paul F. Schofield; Dr. Mark E Hodson, ca 57600\$ (~39492 E), 2-6 th February 2012 – team member;	$39492 \times 100 / 100000 / 6 = \mathbf{6,582}$
	11. Science & Technology Facilities Council (STFC) grant No NT2123-1, 2011 for research at the Diamond Light Source, UK Synchrotron facility to carried our XAS experiments on “Zn sequestration in earthworm excreted calcium carbonates granules“ at the beam line i18-Microfocus spectroscopy, Dr. Loredana Brinza-PI, Prof. Fred Mosselmans, Dr. Paul D. Quinn; Dr. Paul F. Schofield; Prof. Mark E Hodson, ca 32130 GBP (~44018 E), May 2011,– principal investigator;	$32130 \times 100 / 100000 = \mathbf{32,130}$

	12. Science & Technology Facilities Council (STFC) grant No SP6744-1, 2011 for research at the Diamond Light Source, UK Synchrotron facility to carried our XAS experiments on “Selenium in shales: where and who is the bad guy?” Prof. Liane G Benning (PI), Adriana Matamoros Velosa, Dr. Loredana Brinza, 53550 GBP (~73363 E), 25-31 May 2011; team member;	73363*100/100000/3= 24,454
	13. Science & Technology Facilities Council (STFC) grant No CM-1946-2 (2065-3), 2011 for research at the Diamond Light Source, UK Synchrotron facility to carried out XAS experiments on “Incorporation of V into iron oxyhydroxides” at the beam line i18-Microfocus spectroscopy, Dr. Loredana Brinza –PI; Prof. Fred Mosselmans, Dr. Tina Geraki, ca 11250 GBP (~15412 E), 4 August 2011– principal investigator;	15412*100/100000= 15,412
	14. Science & Technology Facilities Council (STFC) grant No NT2000, 2011 for research at the Diamond Light Source, UK Synchrotron facility to carried out XAS experiments on “Incorporation of Sr into earthworm secreted calcium carbonate” at the beam line i18-Microfocus spectroscopy, Prof. Fred Mosselmans-PI; Dr. Loredana Brinza; Dr. Paul D. Quinn; Dr. Paul F. Schofield; Prof. Mark E Hodson, ca 32130 GBP (~44018 E), -5-8 th February 2011– team member as research associate;	44018*100/100000/5= 8,804
	15. AMASE 09 (Arctic Mars Analog Svalbard Expedition 2009) grant founded by NASA (National Aeronautics and Space Administration) and JPL (Jet Propulsion Lab), Hans Amundsen (Expedition Leader Norway), Andrew Steele (Science Leader – Carnegie Institution of Washington), Marilyn Fogel (Management team – Carnegie Institution of Washington), Pan Conrad (Management team) and Liane Benning (Management team – University of Leeds, UK (2009), 2.22M US \$ (~1995695 E), – postdoc collaborator based at the Earth and Biosphere Institute and School of Earth and Environment at the University of Leeds (March-May 2010) (total 35 team members and collaborators: http://www.lpi.usra.edu/meetings/abscicon2010/pdf/5674.pdf)	1995695*100/100000/35= 57,019
	16. UK Natural Environment Research Council ‘Weathering Science Consortium’ NE/C004566/1 Biologically-Mediated Weathering of Minerals from Nanometre Scales to Environmental Systems, 2006-2011, Members: Prof. Liane G. Benning (PI), Prof. Bruce Yardley, Prof. Rik Brydson, Dr. Steve Bonneville, Andy Bray, Loredana Brinza; at University of Leeds , 364214 GBP (~498973 E),– L. B. collaborator as research fellow at Leeds with Prof. Liane G. Benning, March-May 2009,	498973*100/100000/6= 83,1621
	17. Emeritus Fellowship funded by Leverhulme Trust; Bioavailable nanoparticulate iron in icebergs, Prof. Rob Raiswell –PI, Dr. Lordana Brinza, Dr. Hong Phuc Vu; 2007-2009, ca 22000GBP (~30140 E), - team member as research associate, Jan-Feb 2009;	30140*100/100000/3= 10,046
	18. Council for the Central Laboratory of the Research Councils (CCLRC) grant no 50115 for beamtime at 16.4 time-resolved Energy Dispersive-X-Ray Diffraction beamline at Synchrotron Radiation Source	24600*100/100000/3= 8,220

	(SRS) Daresbury Laboratory, UK 3 days to carry out research on “ In situ hydrothermal mineral transformation of iron oxyhydroxides”, Prof. Liane G. Benning – PI, Loredana Brinza, Hong Phuc Vu, 2008, ca 18000 GBP (~24660 E), - team member as research fellow	
	19. Council for the Central Laboratory of the Research Councils (CCLRC) grant no 47113 on 15.1 Dilute spectroscopy beamline at UK synchrotron, Daresbury Laboratory, UK 3 days to carry out research on “Pb-XAS in iron oxynhydroxides”, Prof. Liane G. Benning, Loredana Brinza, Hong Phuc Vu, 2007, ca 18000 GBP (~24660 E), - team member as research fellow	24660*100/100000/3= 8,220
	20. Council for the Central Laboratory of the Research Councils (CCLRC) grant no 47113 on 15.1 Dilute spectroscopy beamline at UK synchrotron, Daresbury Laboratory, UK 3 days to carry out research on “Mo-XAS in iron oxynhydroxides”, Prof. Liane G. Benning, Hong Phuc Vu, Loredana Brinza, 2007, ca 18000 GBP (~24660 E), - team member as research fellow	24660*100/100000/3= 8,220
	21. European Community under the Sixth Framework (FP6), Marie Curie Actions Early-Stage Training (EST) Fellowships; grant name BIOTRACS (Bio-transformation of trace elements in aquatic systems) working on “The interaction of trace metals and iron-based nanoparticles in contrasting marine settings” contract number MEST-CT-2004-514262, 2220111 E; Oct 2005 – Dec 2008 – team member as research fellow from 27 members; see website: http://cordis.europa.eu/result/rcn/50263_en.html or http://www.noc.soton.ac.uk/BIOTRACS/about.html	2220111*100/100000/27= 82,222
	22. Marie Curie Individual fellowship at the University of Leeds, Leeds, United Kingdom funded by the European Community under the Fifth Framework (FP5): EU Marie Curie BIOASSESS “Biodiversity assessment and conservation science” Grant Reference Number EVK2-CT-2000-57122, 285000 E, Feb 2005 – April 2005 – team member as research fellow; see web: http://cordis.europa.eu/project/rcn/72350_en.html	Lipsa numarului total de membri si colaboratori implica necuantificarea temporara a acestui grant:285/?
	23. Marie Curie Training Site fellowship at the Queen’s University of Belfast, Belfast, Northern Ireland, United Kingdom funded by the European Community under the Fifth Framework (FP5): EU Marie Curie Action, “Marine macroalgae : physiological and biochemical ecology, molecular, phylogeny, and aquaculture” Grant Reference Number HPMP-CT- 2001-00268; 240000 E; April 2004- Jan 2005 – team member as research fellow. Se web: http://cordis.europa.eu/project/rcn/64248_en.html	Lipsa numarului total de membri si colaboratori implica necuantificarea temporara a acestui grant: 240/?

	<i>Granturi si contracte in tara</i> 24. National Council for Scientific Research in Higher Education, Modeling and simulating processes for liquid fluxes depollution, regarding property transfer. GRANT CNCSIS, tip A, contract 33557/2003, Tema 21, cod CNCSIS 316, PI: prof. dr. eng. Maria Gavrilescu, 6750 RON, - team member as PhD	Lipsa numarului total de membri si colaboratori implica necuantificarea temporara a acestui grant: 6.7/?
	25. National Council for Scientific Research in Higher Education, Bioremediation of environmental polluted media using chemical engineering and biotechnologies specific processes. GRANT CNCSIS, tip A, contract 40222/2003, Tema 13, cod CNCSIS 774 PI: prof. dr. eng. Matei Macoveanu, 8250 RON,- team member as PhD.	Lipsa numarului total de membri si colaboratori implica necuantificarea temporara a acestui grant: 8.2/?
	TOTAL 9	576,787
	10. Contracte de cercetare în mediul de afaceri și sectorul public	organizații internaționale: 100 puncte pentru fiecare 100.000 Euro firme multinaționale: 100 puncte pentru fiecare 100.000 Euro firme naționale: 50 puncte pentru fiecare 500.000 Euro organizații administrative naționale: 40 puncte pentru fiecare 500.000 Euro alte organizații publice de nivel național: 30 puncte pentru fiecare 500.000 Euro
	11. Brevete	internaționale: 100 puncte / număr de autori naționale: 30 puncte / număr autori
	12. Citări și recenzii ale lucrărilor științifice	Reviste de specialitate din străinătate: (10 + 20 x factor de impact) / număr autori, pentru fiecare citare

		<p>Reviste de specialitate din țara: (5+10 x factor de impact) / număr autori, pe ntru fiecare citare</p> <p>monografii academice din străinătate: 50 puncte / număr autori, pentru fiecare citare</p> <p>monografii academice din țară: 25 puncte / număr autori, pentru fiecare citare</p>
	<p>Citari: 324 conform Google academic si 208 conform Thomson, Web of Science Core Collection Database</p> <p>H index: 9 (WOS)</p>	<p>3830,766 (vezi anexa calcul citari)</p>
	<p>Recenzii pentru</p> <ul style="list-style-type: none"> • Journal of Environmental Management; • Environmental Engineering and Management Journal; • Bioresource Technology; • Desalinization; • Archives of Microbiology; • Langmuir • Industrial and Engineering Chemical Research 	
	TOTAL 12	3830,766
	<p>13. Lucrări susținute în calitate de invitat la manifestări științifice (conferințe, congrese, simpozioane, seminarii și ateliere de lucru)</p>	<p>străinătate: 25 puncte pentru fiecare activitate</p> <p>țară: 10 puncte pentru fiecare activitate</p>
	<p>Manifestari internationale</p> <p>1. <u>Loredana Brinza</u> Advanced synchrotron μ-XAS, μ-XRF and μ-XRD techniques applied to environmental mineralogy research, Research in Progress Meeting, Durham, UK, 25 September 2014 (keynote speaker)</p>	25
	<p>2. <u>Loredana Brinza</u>, Maria Gavrilescu, Matthew Dring, Biosorption Cu (II) and Cr (VI) by dead <i>Fucus vesiculosus</i>, University of Minho, September 25, 2005, Portugal - short communication;</p>	25

	3. <u>Loredana Brinza</u> , Otilia Brinza, Maria Gavrilescu, Liane G. Benning, Matthew J. Dring, Heavy metals biosorption by marine brown algae: <i>Ascophyllum nodosum</i> , <i>Fucus vesiculosus</i> , <i>Sargassum muticum</i> , <i>Laminaria digitata</i> , , University of Minho, September 25, 2005, Portugal - short comunication;	25
	Manifestari din tara	10
	4. <u>Loredana Brinza</u> , Synchrotron XAS, μ -XRF and ED-XRD applied in biogeochemistry research, National Institute of Material Physics, Magurele, Romania, 22 January, 2014 (lecture), pentru confirmare si detalii contactati: Dr. C MTeodorescu la teodorescu@infim.ro	
	TOTAL 13	85
	14. Profesor/cercetător invitat la universități/institute de cercetare	străinătate: 25 puncte pentru fiecare activitate țară: 10 puncte pentru fiecare activitate
	1. Marie Curie Individual fellowship at the University of Leeds, Leeds, United Kingdom funded by the European Community under the Fifth Framework (FP5): EU Marie Curie BIOASSESS "Biodiversity assessment and conservation science" Grant Reference Number EVK2-CT-2000-57122, 285000 E, Feb 2005 – April 2005 – team member as research fellow; see web: http://cordis.europa.eu/project/rcn/72350_en.html	25
	2. Marie Curie Training Site fellowship at the Queen's University of Belfast, Belfast, Northern Ireland, United Kingdom funded by the European Community under the Fifth Framework (FP5): EU Marie Curie Action, "Marine macroalgae : physiological and biochemical ecology, molecular, phylogeny, and aquaculture" Grant Reference Number HPMP-CT- 2001-00268; 240000 E; April 2004- Jan 2005 – team member as research fellow. Se web: http://cordis.europa.eu/project/rcn/64248_en.html	25
	TOTAL 14	50
	15. Editor/Membru în <i>Editorial Board & Advisory Board</i>	-reviste cotate <i>Web of Science</i> : editor, 30 puncte pentru fiecare revistă membru, 20 puncte pentru fiecare revistă -reviste internaționale și alte reviste ale Universității: editor, 15

		puncte pentru fiecare revistă; membru, 10 puncte pentru fiecare revistă
	16. Premii internaționale obținute printr-un proces de selecție	100 puncte / categorie / număr personae
	1. Prized participation to International Symposionum Present Environment and Sustainable Development: <u>Loredana Brinza</u> , Carmen-Madalina Cismasiu, Ioan Ardelean, Madalina Paiu, Georgiana Bulai, Iuliana-Gabriela Breaban.: Microbial noble metals bioleaching: in vitro preliminary results for future environmental friendly dissolution techniques, 2-4th June 2017, Iasi, Romania – prized poster	100/6= 16,666
	1. Prized participation to Diamond Light Source Synchrotron User Meeting: <u>Loredana Brinza</u> , J. Fred W. Mosselmans, Paul F. Schofield, Paul D. Quinn and Mark E. Hodson, Earthworms immobilise Sr within bio-synthesised calcium carbonate granules, Synchrotron User Meeting 7-8th September 2011 - prized poster;	20
	2. Research Student Publication Prize competition awarded letters of commendation sent by the Head of School of Earth and Environmental, University of Leeds, February 2011	100
	TOTAL 16	136,666
	17. Premii ale Academiei Române	50 puncte / categorie / număr persoane
	18. Alte premii naționale ale instituțiilor culturale	20 puncte / categorie / număr persoane

	<p>19. Participări la manifestări științifice internaționale: președinte comitet organizare/consiliu științific, 25 puncte pentru fiecare activitate; membru comitet organizare/consiliu științific, 15 puncte pentru fiecare activitate; moderator de panel, 15 puncte pentru fiecare activitate; raportor pe secțiuni/paneluri, 10 puncte pentru fiecare activitate naționale: președinte comitet organizare/consiliu științific, 15 puncte pentru fiecare activitate; membru comitet organizare/consiliu științific, 5 puncte pentru fiecare activitate; moderator de panel, 5 puncte pentru fiecare activitate; raportor pe secțiuni/paneluri, 2 puncte pentru fiecare activitate</p>	
	<p>Raportor la manifestari internationale (10 puncte pentru fiecare activitate)</p> <ol style="list-style-type: none"> 1. <u>Loredana Brinza</u>, Hong Phuc Vu, Mariana Neamtu, Liane G. Benning Mo and V adsorption onto ferrihydrite: experimental vs. simulation, MINSOC-EMG: Research in Progress Meeting 9th June 2016, School of Earth Sciences, Wills Memorial Building, University of Bristol, UK 2. Mark E Hodson, Stuart Black, <u>Loredana Brinza</u>, Daniel Carpenter, Denise C. Lambkin, J. Fred W Mosselmans, Barbara Palumbo-Roe, Paul F Schofield, Tom Sizmur, Emma A Versteegh, 2014, Biology as an agent of chemical and mineralogical change in soil, Geochemistry of the Earth's surface GES-10, Paris, France, 18-23 August, 2014, oral presentation; http://ges10.web-events.net 3. <u>Loredana Brinza</u>, J. Fred W. Mosselmans, Paul F. Schofield, Erica Donner, Enzo Lombi, Mark E. Hodson, Zn immobilization by <i>Lumbricus terrestris</i> calcium carbonate biomineralized granules, Goldschmidt 2013, 25-30th August 2013, Florence, Italy – oral presentation 4. <u>Loredana Brinza</u>, J. Fred W. Mosselmans Paul F. Schofield, Paul D. Quinn, Mark E. Hodson, Qualitative and quantitative approaches of strontium incorporation into earthworm bio mineralized calcium carbonates granules, Diamond Light Source Science Away Day, Sheepdrove Eco Conference Centre, Lambourne, UK, 10th June 2013, short communication. 5. J. Fred W. Mosselmans, <u>Loredana Brinza</u>, Paul F. Schofield, Sophie Weller, Konstantin Ignatyev, Tina Geraki, Mark E. Hodson, New developments in micro-X-ray diffraction and XANES mapping at Diamond's I18 beamline as applied to the mineralogy of earthworm granules, Minerals for Life, 17-18th June 2013, Edinburgh, UK, oral presentation 6. <u>Loredana Brinza</u>, J. Fred W. Mosselmans, Paul F.Schofield, Erica Donner, Enzo Lombi, David Paterson, Paul D. Quinn, Tina Geraki, Mark E Hodson, Sr, Cu and Zn incorporation in earthworm synthesized calcium carbonate granules - a μXAS and μS-XRF investigation, EMC2012, 2-6th September 2012, Frankfurt, Germany - oral prezentation; 7. <u>Loredana Brinza</u>, J. Fred W. Mosselmans, Paul F. Schofield, Erica Donner, Enzo Lombi, David Paterson, Paul D. Quinn Tina Geraki and Mark E. Hodson, Metals incorporation in earthworm-secreted calcium carbonate granules, Diamond Light Source Science Away Day 2012, Sheepdrove Eco Conference Centre, Lambourne, UK – June 2012, - poster 	180

	<ol style="list-style-type: none"> 8. <u>Loredana Brinza</u>, J. Fred W. Mosselmans, Paul F. Schofield, Paul D. Quinn and Mark E. Hodson, Earthworms immobilise Sr within bio-synthesised calcium carbonate granules, Synchrotron User Meeting 7-8 September 2011 - prized poster; 9. <u>Loredana Brinza</u>, J. Fred W. Mosselmans, Paul F. Schofield, Paul D. Quinn and Mark E. Hodson, Strontium incorporation into carbonate granules secreted by earthworms. Mineralogical Magazine, 75 581 Goldschmidt 2011 Conference, 14-19 August 2011, Prague - oral presentation; 10. <u>Loredana Brinza</u>, Liane G. Benning, Peter J. Statham, Mo and V biosorption onto ferrihydrite, 'Global Biogeochemical Cycles - A Leeding View' Symposium, August 27-29, 2008, Leeds, United Kingdom – poster; 11. <u>Loredana Brinza</u>, Liane G. Benning, Peter J. Statham, Biosorption studies of Mo and V onto ferrihydrite, Geochemistry of the Earth's Surface (GES 8), August 18–22, 2008, Natural History Museum, London, United Kingdom – oral presentation; 12. <u>Loredana Brinza</u>, Sam Shaw, Liane G. Benning, The effect of molybdenum on the transformation kinetics of ferrihydrite to hematite: An <i>in situ</i> ED-XRD approach (oral) Goldschmidt 2008 - "From sea to sky", July 13-18, 2008, Vancouver, Canada - oral presentation; 13. <u>Loredana Brinza</u>, Sam Shaw, Liane G. Benning, Peter J. Statham, <i>In situ</i> ED-XRD kinetic studies of ferrihydrite transformation to hematite; molybdenum effect and partitioning, Environmental Mineralogy Group of the Mineralogical Society Research in Progress Meeting, May 1, 2008, The Natural History Museum, London, United Kingdom – oral presentation; 14. <u>Loredana Brinza</u>, Liane. G. Benning, Peter. J. Statham, Characterisation of Mo and V interactions with ferrihydrite as an analogue for deep-sea hydrothermal plumes processes, Goldschmidt 2007- "atoms to planet", August 20-24, Cologne, Germany; - poster 15. <u>Loredana Brinza</u>, Liane. G. Benning, Peter. J. Statham, The mechanism of molybdenum uptake by ferrihydrite and its fate during the transformation to hematite, Frontiers in Mineral Sciences, June 26-28, 2007, Cambridge, United Kingdom – oral presentation; 16. <u>Loredana Brinza</u>, Maria Gavrilescu, Matthew Dring, Biosorption Cu (II) and Cr (VI) by dead <i>Fucus vesiculosus</i>, University of Minho, September 25, 2005, Portugal - short communication; 17. <u>Loredana Brinza</u>, Otilia Brinza, Maria Gavrilescu, Liane G. Benning, Matthew J. Dring, Heavy metals biosorption by marine brown algae: <i>Ascophyllum nodosum</i>, <i>Fucus vesiculosus</i>, <i>Sargassum muticum</i>, <i>Laminaria digitata</i>, , University of Minho, September 25, 2005, Portugal - short comunicacion; 18. <u>Loredana Brinza</u>, Matthew J. Dring, Maria Gavrilescu, Ability of different algal species to take up heavy metals from wastewater, Annual Meeting of British Phycological Society, University of Birmingham, January 5-7, 2005, United Kingdom – poster; 	
	<p>Raportor la manifestari nationale (2 puncte pentru fiecare activitate)</p> <ol style="list-style-type: none"> 1. <u>Loredana Brinza</u>, Carmen-Madalina Cismasiu, Ioan Ardelean, Madalina Paiu, Georgiana Bulai, Iuliana-Gabriela Breaban.: Microbial noble metals bioleaching: in vitro preliminary results for future environmental friendly dissolution techniques, 2-4th June 2017, Iasi, Romania 	10

	<p>2. <u>Loredana Brinza</u>, Maria Gavrilescu, Biotechnologies in environmental protection: soil remediation and water treatment biotechnologies applicable for heavy metals depollution. The Days of Faculty of Chemical Engineering and Environmental Protection; November 15-16, 2007, Iasi, Romania;</p> <p>3. Otilia Brinza, <u>Loredana Brinza</u>, Liane G. Benning, Maria Gavrilescu, Studies regarding biosorption on heavy metals on marine algae, Conference of "Gh. Asachi" Technical University Iasi - November 15, 2005, Iasi, Romania – oral presentation;</p> <p>4. <u>Loredana Brinza</u>, Matthew Dring, Maria Gavrilescu, Biosorption of Cu (2+) ions from aqueous solution by <i>Enteromorpha sp</i>, 2nd International Conference on Environmental Engineering and Management, Faculty of Industrial Chemistry, Department of Environmental Engineering Iasi, September 23-36, 2004, Iasi, Romania - poster;</p> <p>5. <u>Loredana Brinza</u>, Maria Gavrilescu, Studies on Heavy Metal Removal by Biosorption -, 3rd Conference of Faculty of Industrial Chemistry "90 Years of Chemical Engineering Education in Iasi", November 2002, Iasi, Romania – poster.</p>	
	TOTAL 19	190
TOTAL I		5672,71
II. ACTIVITATE A DIDACTICĂ (30%)	1. Tratamente și manuale universitare	30 puncte la 100 pagini / număr de autori
	2. Proiecte didactice (înființare/dotare laboratoare licență, master, săli workshop, biblioteci proprii facultăților, departamentelor, laboratoarelor și grupurilor de cercetare)	40 puncte pentru fiecare activitate
	3. Materiale suport curs, seminar, lucrări practice și programe analitice detaliate	10 puncte pentru fiecare activitate
	4. Organizare de aplicații și practică de specialitate	5 puncte pentru fiecare activitate
	1. University of Leeds, School of Earth Science, Laborator "Geochemical modelling" pentru studenți la Master, 2008-2009.	5
	2. Universitatea Tehnică Gh. Asachi Iasi, Facultatea de Chimie Industrială, Laborator IPCB cu studenții anului 3 la Ingineria Mediului, 2002-2003	5
	TOTAL 4	10
TOTAL II		10
TOTAL I+II=		5682,71

Anexa. Calcul punctaj pentru citari ale lucrarilor stiintifice

Dr. Loredana Brinza Tepes

Lucrari stiintifice	Nr citari conform Web of Sciance	Punctaj
1. Articole științifice publicate <i>in extenso</i> în reviste cotate <i>Web of Science</i> cu factor de impact		
1. Loredana Brinza, Hong P. Vu, Samuel Shaw, J. Fred W. Mosselmans, Liane G. Benning, 2015, The effect of molybdenum and vanadium on the hydrothermal crystallization of hematite from ferrihydrite at seawater pH and ionic strength - an in situ EDXRD and XAS study, Crystal Growth and Design : FI: 4.055 /2016;	8 citari	(10+20*IF)/nr autori
	1. Leiviska, Tiina; Khalid, Muhammad Kamran; Sarpola, Arja; Tanskanen, Juha 2017 , Removal of vanadium from industrial wastewater using iron sorbents in batch and continuous flow pilot systems, Journal Of Environmental Management , 190, 231-242, IF=4,01	22,55
	2. Katrin Schulz, Roman Schmack, Hagen, W. Klemm, Anke Kabelitz, Thomas Schmidt, Franziska Emmerling, Ralph Kraehnert 2017 , <u>Mechanism and Kinetics of Hematite Crystallization in Air: Linking Bulk and Surface Models via Mesoporous Films with Defined Nanostructure</u> , Chemistry of Materials 9 (4), 1724-1734; IF=9,466	28,474
	3. Liang Cao, Zhao-Xia Jiang, Yong-Hua Du, Xin-Mao Yin, Shi-Bo Xi, Wen Wen, Andrew P. Roberts, Andrew T. S. Wee, Yi-Min Xiong, Qing-Song Liu, and Xing-Yu Gao, 2017 , <u>Origin of Magnetism in Hydrothermally Aged 2-Line Ferrihydrite Suspensions</u> , Environmental Science & Technology , 51 (5), 2643-2651; IF=6,198	12,170
	4. Juan Diego Rodriguez-Blanco, Karina K. Sand, Liane G. Benning, 2017 , <u>ACC and Vaterite as Intermediates in the Solution-Based Crystallization of CaCO₃</u> , 93-111	
	5. Kristina M. Peterson, Peter J. Heaney, Jeffrey E. Post, 2016 , <u>A kinetic analysis of the transformation from akaganeite to hematite: An in situ time-resolved X-ray diffraction study</u> , Chemical Geology 444, 27-36, IF=3,347	25,646
	6. Soumya Das, Joseph Essilfie-Dughan, M. Jim Hendry, 2016, <u>Sequestration of molybdate during transformation of 2-line ferrihydrite under alkaline conditions</u> , Applied Geochemistry 73, 70-80, IF=2.581 ;	20,540
	7. Francisco, PCM; Sato, T; Otake, T; Kasama, T, 2016 , Kinetics of Fe ³⁺ mineral crystallization from ferrihydrite in the presence of Si at alkaline conditions and implications for nuclear waste disposal, American Mineralogist , 101/9-10, 2057-2069, IF=2.021 ;	12,600

	8. Kreissl, Stefan; Bolanz, Ralph; Goettlicher, Joerg; Steininger, Ralph; Tarassov, Mihail; Markl, Gregor, 2016 , Structural incorporation of W6+ into hematite and goethite: A combined study of natural and synthetic iron oxides developed from precursor ferrihydrite and the preservation of ancient fluid compositions in hematite, American Mineralogist , 101/12, 2701-2715 IF=2.021 ,	8,400
2. Mark E Hodson, Stuart Black, <u>Loredana Brinza</u> , Daniel Carpenter, Denise C. Lambkin, J. Fred W Mosselmans, Barbara Palumbo-Roe, Paul F Schofield, Tom Sizmur, Emma A Versteegh, 2014, Biology as an agent of chemical and mineralogical change in soil, Procedia Earth and Planetary Science . 10, 114 – 117	1 citare	
	1. Cunha, L; Brown, GG; Stanton, DWG; Da Silva, E; Hansel, FA; Jorge, G; McKey, D; Vidal-Torrado, P; Macedo, RS; Velasquez, E; James, SW; Lavelle, P; Kille, P, 2016 , Soil Animals and Pedogenesis: The Role of Earthworms in Anthropogenic Soil, Soil Science , 181/3-4, 110-125, IF=0.864	2,098
3. <u>Loredana Brinza</u> , Frederick J. W. Mosselmans, Paul F. Schofield, Erica Donner, Enzo Lombi, Mark E. Hodson, 2014, Can earthworm-secreted calcium carbonate immobilise Zn in contaminated soils?, Soil Biology and Biochemistry , 74, 1-10, DOI: 10.1016/j.soilbio.2014.01.012; IF=4,857	7 citari	
	1. Versteegh E.A.A., Black S., Hodson M.E., 2017 , Carbon isotope fractionation between amorphous calcium carbonate and calcite in earthworm-produced calcium carbonate, Applied Geochemistry , 78, IF=2,581	20,540
	2. Wang, H; Wang, X-J; Wang, W.-S; Chen, J; Zhao, J-F, 2016 , Modeling and optimization of struvite recovery from wastewater and reusing from heavy metals mobilization in contaminated soils, Journal of chemical technology and Biotechnology , IF=3,135	14,540
	3. Du, YJ; Wei, ML; Reddy, KR; Wu, HL, 2016 , Effect of carbonation on leachability, strength and microstructural characteristics of KMP binder stabilized Zn and Pb contaminated soils. Chemosphere , 144, : 1033-1042 DOI: 0.1016/j.chemosphere.2015.09.082, IF=4,208 ;	23,540
	4. Richardson, JB; Gorres, JH; Jackson, BP; Friedland, AJ, 2015 , Trace metals and metalloids in forest soils and exotic earthworms in northern New England, USA, Soil Biology & Biochemistry 85, 190-198 DOI: 10.1016/j.soilbio.2015.03.001, IF=4,857 ;	26,785
	5. Hodson, ME; Benning, LG; Demarchi, B; Penkman, KEH; Rodriguez-Blanco, JD; Schofield, PF; Versteegh, EAA, 2015 , Biomineralisation by earthworms - an investigation into the stability and distribution of amorphous calcium carbonate, Geochemical Transactions , 16; FI=1,71	11,050
	6. Aghababaei, F; Raiesi, F; Fiosseinpur, A, 2014 , The influence of earthworm and mycorrhizal co-inoculation on Cd speciation in a contaminated soil, Source: Soil Biology & Biochemistry Volume: 78 Pages: 21-29 DOI: 10.1016/j.soilbio.2014.06.010, IF=4,857	15,305
	7. Hodson, ME; Black, S; Brinza, L; Carpenter, D; Lambkin, DC; Mosselmans, JFW; Palumbo-Roe, B; Schofield, PF; Sizmur, T; Versteegh, EAA , Biology as an agent of chemical and mineralogical change in soil,	

	Geochemistry Of The Earth's Surface Ges-10 Book Series: Procedia Earth and Planetary Science , Volume: 10 Pages: 114-117 DOI: 10.1016/j.proeps.2014.08.039	
4. L. Brinza, P. F. Schofield, M. E. Hodson, S. Weller, K. Ignatyev, K. Geraki, P. D. Quinn and J. F. W. Mosselmans, 2014, Combining μ XANES and μ XRD mapping to analyse the heterogeneity in calcium carbonate granules excreted by the earthworm <i>Lumbricus terrestris</i> Journal of Synchrotron Radiation , 01/2014, 21, 235-41; DOI:10.1107/S160057751303083X, FI=3,011	14 citari	
	1. Versteegh, EAA; Black, S; Hodson, ME, 2017 , Carbon isotop fractionation between amorphous calcium carbonate and calcite in earthworm produced calcium carbonate, Applied geochemistry , 78, IF=2,581	20,540
	2. Grunwaldt H S; Zimina A; Göttlicher J; Grunwaldt J-D, 2016, Study of the relation between Mg content and dissolution kinetics of natural lime stone using μ XRF, μ XRD and μ XAS, Journal of Physics Conference Series 712(1):012144	
	3. Johnson-Maynard Jodi L.; Strawn Daniel G., 2016, Linking Physical and Biogeochemical Properties and Processes in the Drilosphere, Soil Science , 181(3/4):126-132, IF=0.864	13,640
	4. Mosselmans, J.Fred Willem; Pearce, C.I., Bower, William; Patrick, Richard A D; Price, Stephen W. T.; Beale Andrew; Sims Adam; Barrio Laura, 2016 , Microscopic X-ray imaging techniques applied to mineral systems and catalyst particles, DOI: 10.1346/CMS-WLS-21.6	
	5. Monarumit, N; Noirawee, N; Phlayrahan, A; Promdee, K; Won-In, K; Satitkune, S, 2016 , Structural Analysis of Freshwater-Cultured Pearls with Different Lusters Using the Extended X-Ray Absorption Fine Structure Technique, Journal of Applied Spectroscopy , 83/2, 298-301, DOI: 10.1007/s10812-016-0285-2 Published: MAY 2016; IF=0,572	3,573
	6. Johnson-Maynard, JL; Strawn, DG, 2016 , Linking Physical and Biogeochemical Properties and Processes in the Drilosphere, Soil Science , 181/3-4 , 126-132 DOI: 10.1097/SS.0000000000000142 Published: MAR-APR 2016, IF=0.864	13,640
	7. Xu, N; Wang, YL; Xu, XT; Liu, C; Qian, JC; Feng, G, 2016 , Mechanisms and Applications of the Synthesized Fusiform Aragonite for the Removal of High Concentration of Phosphate, Water Air and Soil Pollution , 227/2, DOI: 10.1007/s11270-016-2757-7, IF=1,702	7,340
	8. Kittiphop Promdee, 2015 , Identification of High-Luster and Lusterless Freshwater-Cultured Pearls by X-Ray Absorption Spectroscopy, Journal of Applied Spectroscopy , IF 0,572	21,440
	9. Hodson, ME; Benning, LG; Demarchi, B; Penkman, KEH; Rodriguez-Blanco, JD; Schofield, PF; Versteegh, EAA, 2015 , Biomineralisation by earthworms - an investigation into the stability and distribution of amorphous calcium carbonate, Geochemical Transactions , 16, DOI: 10.1186/s12932-015-0019-z Published: APR 28, IF=1,71	6,314
	10. Grafe, M; Klauber, C; Gan, B; Tappero, RV, 2014, Synchrotron X-ray microdiffraction (μ XRD) in minerals and environmental research, Powder Diffraction , 29, S64-S72 DOI: 10.1017/S0885715614001031; IF=0,674	8,370
	11. Schofield, PF; Smith, AD; Scholl, A; Doran, A; Covey-Crump, SJ; Young, AT; Ohldag, H, 2014 , Chemical and oxidation-state imaging of mineralogical intergrowths: The application of X-ray photo-emission electron microscopy (XPEEM), Coordination Chemistry Reviews , 277/31-43, DOI: 10.1016/j.ccr.2014.02.006, IF=13,324	39,497
	12. West, M; Ellis, AT; Potts, PJ; Streli, C; Vanhoof, C; Wobrauschek, P, 2014 , 2014 Atomic Spectrometry Update -	12,930

	a review of advances in X-ray fluorescence spectrometry, Journal Of Analytical Atomic Spectrometry , 29/9, 1516-1563, DOI: 10.1039/c4ja90038c; IF=3,379 ;	
	13. Hodson, ME; Black, S; Brinza, L; Carpenter, D; Lambkin, DC; Mosselmans, JFW; Palumbo-Roe, B; Schofield, PF; Sizmur, T; Versteegh, EAA, 2014 , Biology as an agent of chemical and mineralogical change in soil, <i>Geochemistry Of The Earth's Surface Ges-10 Book Series: Procedia Earth and Planetary Science</i> , Volume: 10 Pages: 114-117 DOI: 10.1016/j.proeps.2014.08.039	
5. Phuc Vu, Samuel Shaw, <u>Loredana Brinza</u> , Liane G Benning, 2013, Partitioning of Pb (II) during goethite and hematite crystallisation: implication for Pb transport in natural systems, 2013 Applied Geochemistry , 39, 119-128; DOI:10.1016/j.apgeochem.2013.10.001, IF=2,581 ;	12 citari	
	1. Cuss, CW; Grant-Waver, I; Shotyk, W; 2017 , AF4-ICPMS with 300 da membrane to resolve Metal Bearing "coloids"< 1kDa, Optimization, Fractogram Deconvolution and Advanced Quality Control, Analytical Chemistry , IF=6,32	45,466
	2. Georgiev, P; Groudev, S; Spasova, I; Nicolova M; 2017 , Transport of radionuclides and heavy metals during clean up of cinnamonic soil, Journal of Geochemical Exploration , 174, IF=2,464	14,820
	3. Segura, FR; Nunes, EA; Paniz, FP; Paulelli, ACC; Rodrigues, GB; Braga, GUL; Pedreira, WD; Barbosa, F; Cerchiaro, G; Silva, FF; Batista, BL, 2016 , Potential risks of the residue from Samarco's mine dam burst (Bento Rodrigues, Brazil), Environmental Pollution , 218, 813-825 DOI: 10.1016/j.envpol.2016.08.005 , IF=5,099	10,180
	4. Trueman, BF; Gagnon, GA, 2016 , A new analytical approach to understanding nanoscale lead-iron interactions in drinking water distribution systems, Journal Of Hazardous Materials , 311, 151-157, DOI: 10.1016/j.jhazmat.2016.03.001, IF=6,065	65,650
	5. Tiberg, C; Kumpiene, J; Gustafsson, JP; Marsz, A; Persson; Mench, M; Kleja, DB, 2016 , Immobilization of Cu and As in two contaminated soils with zero-valent iron - Long-term performance and mechanisms, Applied Geochemistry , 67, 144-152 DOI: 10.1016/j.apgeochem.2016.02.009, IF=2,581 ;	8,802
	6. Li, L; Song, WJ; Deng, CN; Zhang, DY; Al-Misned, FA; Mortuza, MG; Gadd, GM; Pan, XL , 2016 , Effects of pH and Salinity on Adsorption of Hypersaline Photosynthetic Microbial Mat Exopolymers to Goethite: A Study Using a Quartz Crystal Microbalance and Fluorescence Spectroscopy, Geomicrobiology Journal ,33/3-4-Special Issue, 332-337, DOI: 10.1080/01490451.2015.1052120, IF=1,485	4,962
	7. Sanderson, P; Naidu, R; Bolan, N; Lim, JE; Ok, YS , 2015 , Chemical stabilisation of lead in shooting range soils with phosphate and magnesium oxide: Synchrotron investigation, Journal Of Hazardous Materials , 299, 395-403, DOI: 10.1016/j.jhazmat.2015.06.056, IF=6,065	26,260
	8. Brinza, L; Vu, HP; Shaw, S; Mosselmans, JFW; Benning, LG, 2015 , Effect of Mo and V on the Hydrothermal Crystallization of Hematite from Ferrihydrite: An in Situ Energy Dispersive X-ray Diffraction and X-ray Absorption Spectroscopy Study, Crystal Growth & Design , 15/10, 4768-4780, DOI: 10.1021/acs.cgd.5b00173, IF=4,055 ;	18,220
	9. Pedrot, M; Dia, A; Davranche, M; Gruau, G, 2015, Upper soil horizons control the rare earth element patterns in shallow groundwater, Geoderma , 239, 84-96, DOI: 10.1016/j.geoderma.2014.09.023 , IF=4,036	22,680
	10. Peng, Y; Yang, WQ; Wang, B; Zhang, HL; Yue, KL; Wu, FZ, 2015 , Heavy metal output and content of headwater streams in an alpine forest in the upper reaches of the yangtze river, Fresenius Environmental Bulletin ,24/1, 132-138, IF=0,425	3,083
	11. Vu, HP; Moreau, JW, 2015 , Thiocyanate adsorption on ferrihydrite and its fate during ferrihydrite transformation	47,080

	to hematite and goethite, Chemosphere , 119, 987-993, DOI: 10.1016/j.chemosphere.2014.09.019, IF=4,208	
	12. Marshall, TA; Morris, K; Law, GTW ; Livens, FR; Mosselmans, JFW; Bots, P; Shaw, S, 2014 , Incorporation of Uranium into Hematite during Crystallization from Ferrihydrite, Environmental Science & Technology , 48/7, 3724-3731, DOI: 10.1021/es500212a, IF=6,198	19,137
6. Loredana Brinza, Paul D. Quinn, Paul F. Schofield, Frederick J. W. Mosselmans, Mark E. Hodson, 2012, Incorporation of strontium in earthworm-secreted calcium carbonate granules produced in strontium-amended and strontium-bearing soil, Geochimica et Cosmochimica Acta , 113 21-37, DOI: 10.1016/j.gca.2013.03.011, FI=4,609	13 citari	
	1. Littlewood et al 2017 , Mechanisms of enhancing strontium uptake into calcite via an amorphous calcium carbonate crystallization pathways, Crystal Growth & Design , IF=4,055	91,100
	2. Versteegh E.A.A., Black S., Hodson M.E., 2017 , Carbon isotope fractionation between amorphous calcium carbonate and calcite in earthworm-produced calcium carbonate, Applied Geochemistry , 78, IF=2,581	20,540
	3. Katsikini, M, 2016 , Detailed spectroscopic study of the role of Br and Sr in coloured parts of the Callinectes sapidus crab claw, Journal Of Structural Biology , 195/1, 1-10, DOI: 10.1016/j.jsb.2016.05. IF=2,767	65,340
	4. Carvalho, RM; dos Santos, JA; Silva, JAS; do Prado, TG; da Fonseca, AF; Chaves, ES; Frescura, VLA, 2015 , Determination of metals in Brazilian soils by inductively coupled plasma mass spectrometry, Environmental Monitoring And Assessment , 187/8, DOI: 10.1007/s10661-015-4769-y, IF=1,687	6,248
	5. Li, ZY; Linares, RV; Bucs, S; Aubry, C; Ghaffour, N; Vrouwenvelder, JS; Amy, G, 2015 , Calcium carbonate scaling in seawater desalination by ammonia-carbon dioxide forward osmosis: Mechanism and implications, Journal Of Membrane Science , 481, 36-43 DOI: 10.1016/j.memsci.2014.12.055, IF=6,035	18,671
	6. Hodson, ME; Benning, LG; Demarchi, B (Demarchi, Bea); Penkman, KEH; Rodriguez-Blanco, JD; Schofield, PF; Versteegh, EAA, 2015 , Biomineralisation by earthworms - an investigation into the stability and distribution of amorphous calcium carbonate, Geochemical Transactions , 16, DOI: 10.1186/s12932-015-0019-z, IF=1,71 ;	6,314
	7. Burke, IT; Mosselmans, JFW; Shaw, S; Peacock, CL; Benning, LG; Coker, VS, 2015 , Impact of the Diamond Light Source on research in Earth and environmental sciences: current work and future perspectives, Philosophical Transactions Of The Royal Society A-Mathematical Physical And Engineering Sciences , 373/ 2036, DOI:10.1098/rsta.2013.0151, IF=2,97 ;	11,566
	8. Rodriguez-Tovar, FJ; Martin-Peinado, FJ, 2014 , Lateral and vertical variations in contaminated sediments from the Tinto River area (Huelva, SW Spain): Incidence on tracer activity and implications of the palaeontological approach, Palaeogeography Palaeoclimatology Palaeoecology , 414, 426-437, DOI: 10.1016/j.palaeo.2014.09.022, IF=2,578 ;	30,780
	9. Brinza, L; Schofield, PF; Mosselmans, JFW; Donner, E; Lombi, E; Paterson, D; Hodson, ME, 2014 , Can earthworm-secreted calcium carbonate immobilise Zn in contaminated soils?, Soil Biology & Biochemistry , 74, 1-10 DOI: 10.1016/j.soilbio.2014.01.012, IF=4,857	15,305
	10. Andersson, MP; Sakuma, H; Stipp, SLS, 2014 , Strontium, Nickel, Cadmium, and Lead Substitution into Calcite, Studied by Density Functional Theory, , Langmuir , 30-21, 6129-6133, DOI: 10.1021/la500832u, IF=3,833 ;	28,886
	11. Versteegh, EAA; Black, S; Hodson, ME, 2014 , Environmental controls on the production of calcium carbonate by earthworms, Soil Biology & Biochemistry , 70, 159-161 DOI: 10.1016/j.soilbio.2013.12.013, IF=4,857	35,710

	12. Hodson, ME; Black, S; Brinza, L; Carpenter, D; Lambkin, DC; Mosselmans, JFW; Palumbo-Roe, B (Palumbo-Roe, Barbara); Schofield, PF; Sizmur, T; Versteegh, EAA, 2014 , Biology as an agent of chemical and mineralogical change in soil, <i>Geochemistry Of The Earth's Surface GES-10</i> , Book Series: Procedia Earth and Planetary Science , 10, 114-117 DOI: 10.1016/j.proeps.2014.08.039	
	13. Brinza, L; Schofield, PF; Hodson, ME; Weller, S; Ignatyev, K; Geraki, K; Quinn, PD; Mosselmans, JFW , 2014, Combining mu XANES and mu XRD mapping to analyse the heterogeneity in calcium carbonate granules excreted by the earthworm <i>Lumbricus terrestris</i> , Journal Of Synchrotron Radiation , 21, 235-241 DOI: 10.1107/S160057751303083X, IF=3,011 ;	8,777
7. Rob Raiswell, Hong Phuc Vu, <u>Loredana Brinza</u> , Liane Benning, (2010), The determination of Fe in ferrihydrite by ascorbic acid extraction: methodology, dissolution kinetics and loss of solubility with age and de-watering, Chemical Geology , Vol 278, 1-2, 70-79 doi:10.1016/j.chemgeo.2010.09.002 , FI= 3.347	41 citari	
	1. Bligh, Mark W.; Maheshwari, Pradeep; Waite, T. David, 2017, Formation, reactivity and aging of amorphous ferric oxides in the presence of model and membrane bioreactor derived organics, Water Research , 124, 341-352, IF=6,942	49,613
	2. Herzog, S.D., Persson, P., Kritzberg, E.S., 2017 , Salinity Effects on Iron Speciation in Boreal River Waters, Environmental Science and Technology , 51 (17), pp. 9747-9755. DOI: 10.1021/acs.est.7b02309, IF= 6,198	44,653
	3. Wehrmann, L.M., Riedinger, N., Brunner, B., Kamyschny, A., Hubert, C.R.J., Herbert, L.C., Brüchert, V., Jørgensen, B.B., Ferdelman, T.G., Formolo, M.J., (2017) , Iron-controlled oxidative sulfur cycling recorded in the distribution and isotopic composition of sulfur species in glacially influenced fjord sediments of west Svalbard, Chemical Geology , 466, 678-695. DOI: 10.1016/j.chemgeo.2017.06.013, IF=3,347	7,694
	4. Klar, J.K., Homoky, W.B., Statham, P.J., Birchill, A.J., Harris, E.L., Woodward, E.M.S., Silburn, B., Cooper, M.J., James, R.H., Connelly, D.P., Chever, F., Lichtschlag, A., Graves, C., (2017) Stability of dissolved and soluble Fe(II) in shelf sediment pore waters and release to an oxic water column, Biogeochemistry , 135 (1-2), pp. 49-67. DOI: 10.1007/s10533-017-0309-x, IF=3,428	6,043
	5. Tao, J., Ma, W., Zhu, M., Li, T., Yang, R., (2017) Characterization of iron diagenesis in marine sediments using refined iron speciation and quantized iron(III)-oxide reactivity: a case study in the Jiaozhou Bay, China, Acta Oceanologica Sinica , 36 (7), pp. 48-55. DOI: 10.1007/s13131-016-1083-2, IF=0,73	4,920
	6. Monien, D., Monien, P., Brünjes, R., Widmer, T., Kappenberg, A., Silva Busso, A.A., Schnetger, B., Brumsack, H.-J. (2017) , Meltwater as a source of potentially bioavailable iron to Antarctica waters, Antarctic Science , 29 (3), pp. 277-291, DOI: 10.1017/S095410201600064X, IF=1,461	4,920
	7. Phillips, S.C., Johnson, J.E., Clyde, W.C., Setera, J.B., Maxbauer, D.P., Severmann, S., Riedinger, N., (2017) Rock magnetic and geochemical evidence for authigenic magnetite formation via iron reduction in coal-bearing sediments offshore Shimokita Peninsula, Japan (IODP Site C0020), Geochemistry, Geophysics, Geosystems , 18 (6), pp. 2076-2098., DOI: 10.1002/2017GC006943, IF=3,201	10,574
	8. Riedinger, N., Brunner, B., Krastel, S., Arnold, G.L., Wehrmann, L.M., Formolo, M.J., Beck, A., Bates, S.M., Henkel, S., Kasten, S., Lyons, T.W., (2017) Sulfur cycling in an iron oxide-dominated, dynamic marine depositional system: The argentine continental margin, Frontiers in Earth Science , 5, art. no. 33, DOI:	

	10.3389/feart.2017.00033, IF=	
9.	Thibault de Chanvalon, A., Mouret, A., Knoery, J., Geslin, E., Péron, O., Metzger, E., (2016) Manganese, iron and phosphorus cycling in an estuarine mudflat, Loire, France, Journal of Sea Research , 118, pp. 92-102., DOI: 10.1016/j.seares.2016.10.004 IF=1,888	9,520
10.	Thibault de Chanvalon, A.; Metzger, E.; Mouret, A. Knoery, J; Chiffolleau, J. -F; Brach-Papa, C., 2016, Particles transformation in estuaries: Fe, Mn and REE signatures through the Loire Estuary, Journal Of Sea Research , 118, Special Issue, 103-112, IF=1,888	7,933
11.	Raiswell, R., Hawkings, J.R., Benning, L.G., Baker, A.R., Death, R., Albani, S., Mahowald, N., Krom, M.D., Poulton, S.W., Wadham, J., Tranter, M. (2016) Potentially bioavailable iron delivery by iceberg-hosted sediments and atmospheric dust to the polar oceans Biogeosciences , 13 (13), pp. 3887-3900., DOI: 10.5194/bg-13-3887-2016, IF=3,851	8,702
12.	Hopwood, M.J., Connelly, D.P., Arendt, K.E., Juul-Pedersen, T., Stinchcombe, M.C., Meire, L., Esposito, M., Krishna, R., (2016) Seasonal changes in Fe along a glaciated Greenlandic fjord, Frontiers in Earth Science , 4, art. no. 15, DOI: 10.3389/feart.2016.00015, IF=	
13.	Najem, T; Langley, S; Fortin, D, 2016 , A comparison of Fe(III) reduction rates between fresh and aged biogenic iron oxides (BIOS) by <i>Shewanella putrefaciens</i> CN32, Chemical Geology , 439, 1-12, DOI: 10.1016/j.chemgeo.2016.06.006, IF=3,347	25,646
14.	Hardisty, DS; Riedinger, N; Planavsky, NJ; Asael, D; Andren, T; Jorgensen, BB; Lyons, TW, 2016 , A Holocene History Of Dynamic Water Column Redox Conditions In The Landsort Deep, Baltic Sea, American Journal Of Science , 316/8, 713-745, DOI: 10.2475/08.2016.01, IF=4,099;	13,140
15.	Herraiz-Borreguero, L; Lannuzel, D; van der Merwe, P; Treverrow, A; Pedro, JB, 2016 , Large flux of iron from the Amery Ice Shelf marine ice to Prydz Bay, East Antarctica, Journal Of Geophysical Research-Oceans , 121/8, 6009-6020, DOI: 10.1002/2016JC011687, IF=3,318	15,272
16.	Markussen, TN; Elberling, B; Winter, C; Andersen, TJ, 2016 , Flocculated meltwater particles control Arctic land-sea fluxes of labile iron, Scientific Reports , 6, DOI: 10.1038/srep24033, IF=4,259	23,795
17.	Macchia, A; Ruffolo, SA; Rivaroli, L; La Russa, MF, 2016 , The Treatment Of Iron-Stained Marble: Toward A "Green" Solution, International Journal Of Conservation Science , 7/1, 323-332, IF=NA	
18.	Henkel, S; Kasten, S; Poulton, SW; Staubwasser, M, 2016 , Determination of the stable iron isotopic composition of sequentially leached iron phases in marine sediments, Chemical Geology , 421, 93-102 DOI: 10.1016/j.chemgeo.2015.12.003, IF=3,347	19,235
19.	Hawkings, J; Wadham, J; Tranter, M; Telling, J; Bagshaw, E; Beaton, A; Simmons, SL; Chandler, D; Tedstone, A; Nienow, P, 2016 , The Greenland Ice Sheet as a hot spot of phosphorus weathering and export in the Arctic, Global Biogeochemical Cycles , 30/2, DOI: 10.1002/2015GB005237, IF=4,655	10,310
20.	Raiswell, R; Hawkings, JR; Benning, LG; Baker, AR; Death, R; Samuel, AA Mahowald, N; Krom, MD; Poulton, SW; Wadham, J; Tranter, M, 2016 , Potentially bioavailable iron delivery by iceberg-hosted sediments and atmospheric dust to the polar oceans, Biogeosciences , 13/13, 3887-3900, DOI: 10.5194/bg-13-3887-2016, IF=3,851	7,910

21. Senn, AC; Kaegi, R; Hug, SJ; Hering, JG; Mangold, S; Voegelin, A, 2015 , Composition and structure of Fe(III)-precipitates formed by Fe(II) oxidation in water at near-neutral pH: Interdependent effects of phosphate, silicate and Ca, Geochimica et Cosmochimica Acta , 162, 220-246, DOI: 10.1016/j.gca.2015.04.032, IF=4,609	17,030
22. Frierdich, AJ ; Beard, BL; Rosso, KM; Scherer, MM; Spicuzza, MJ; Valley, JW; Johnson, CM, 2015 , Low temperature, non-stoichiometric oxygen-isotope exchange coupled to Fe(II)-goethite interactions, Geochimica et Cosmochimica Acta , 160, 38-54, DOI: 10.1016/j.gca.2015.03.029, IF=4,609	14,597
23. Queroue, F; Sarthou, G; Planquette, HF; Bucciarelli, E; Chever, F; van der Merwe, P; Lannuzel, D; Townsend, AT; Cheize, M; Blain, S; d'Ovidio, F, Bowie, AR, 2015 , High variability in dissolved iron concentrations in the vicinity of the Kerguelen Islands (Southern Ocean), Biogeosciences , 12/12, 3869-3883, DOI: 10.5194/bg-12-3869-2015, IF=3,851	8,515
24. van der Merwe, P ; Bowie, AR; Queroue, F; Armand, L; Blain, S; Chever, F; Davies, D; Dehairs, F; Planchon, F; Sarthou, G; Townsend, AT; Trull, TW, 2015 , Sourcing the iron in the naturally fertilised bloom around the Kerguelen Plateau: particulate trace metal dynamics, Biogeosciences , 12/3, 739-755. DOI: 10.5194/bg-12-739-2015, IF=3,851 ;	7,251
25. Nielsen, SS; Kjeldsen, P; Hansen, HCB; Jakobsen, R, 2014 , Transformation of natural ferrihydrite aged in situ in As, Cr and Cu contaminated soil studied by reduction kinetics, Applied Geochemistry , 51, 293-302, DOI: 10.1016/j.apgeochem.2014.10.014, IF=2,581	15,405
26. Hawkings, JR; Wadham, JL; Tranter, M; Raiswell, R; Benning, LG; Statham, PJ; Tedstone, A; Nienow, P; Lee, K; Telling, J, 2014 , Ice sheets as a significant source of highly reactive nanoparticulate iron to the oceans, Nature Communications , 5, DOI: 10.1038/ncomms4929, IF=12,124 ;	25,248
27. Frierdich, AJ; Beard, BL; Scherer, MM; Johnson, CM, 2014 , Determination of the Fe(II)(aq)-magnetite equilibrium iron isotope fractionation factor using the three-isotope method and a multi-direction approach to equilibrium, Earth And Planetary Science Letters , 391, 77-86, DOI: 10.1016/j.epsl.2014.01.032, IF=4,409	24,545
28. Hopwood, MJ; Statham, PJ ; Tranter, M; Wadham, JL, 2014 , Glacial flours as a potential source of Fe(II) and Fe(III) to polar waters, Biogeochemistry , 118/1-3, 443-452, DOI: 10.1007/s10533-013-9945-y, IF=3,428	19,640
29. Zhu, MX; Chen, LJ; Yang, GP; Fan, CQ; Li, T, 2014 , Kinetic characterization on reductive reactivity of iron(III) oxides in surface sediments of the East China Sea and the influence of repeated redox cycles: Implications for microbial iron reduction, Applied Geochemistry , 42, 16-26, DOI: 10.1016/j.apgeochem.2014.01.001, IF=2,581	12,324
30. Riedinger, N; Formolo, MJ; Lyons, TW; Henkel, S; Beck, A; Kasten, S , 2014 , An inorganic geochemical argument for coupled anaerobic oxidation of methane and iron reduction in marine sediments, Geobiology , 12/2, 172-181 DOI: 10.1111/gbi.12077, IF=3,462 ;	13,200
31. Vallina, B; Rodriguez-Blanco, JD; Brown, AP; Benning, LG; Blanco, JA, 2014 , Enhanced magnetic coercivity of alpha-Fe ₂ O ₃ obtained from carbonated 2-line ferrihydrite, Journal Of Nanoparticle Research , 16/3, DOI: 10.1007/s11051-014-2322-5, IF=2,02	10,080
32. Chen, LJ (Chen, Liang-Jin); Zhu, MX (Zhu, Mao-Xu); Yang, GP (Yang, Gui-Peng); Huang, XL (Huang, Xiang-Li), 2013 , Reductive Reactivity of Iron(III) Oxides in the East China Sea Sediments: Characterization by	16,530

	Selective Extraction and Kinetic Dissolution, PLOS ONE , 8/11, DOI: 10.1371/journal.pone.0080367, IF=2,806	
	33. Moon, EM; Peacock, CL, 2012 , Adsorption of Cu(II) to ferrihydrite and ferrihydrite-bacteria composites: Importance of the carboxyl group for Cu mobility in natural environments, Geochimica Et Cosmochimica Acta , 92, 203-219, DOI: 10.1016/j.gca.2012.06.012 IF=4,609 ;	51,090
	34. Shi, ZB; Krom, MD; Jickells, TD; Bonneville, S; Carslaw, KS; Mihalopoulos, N; Baker, AR; Benning, LG, 2012 , Impacts on iron solubility in the mineral dust by processes in the source region and the atmosphere: A review, Aeolian Research , 5, 21-42, DOI: 10.1016/j.aeolia.2012.03.001, IF=2,298 ;	6,995
	35. Lam, PJ; Ohnemus, DC ; Marcus, MA, 2012 , The speciation of marine particulate iron adjacent to active and passive continental margins, Geochimica et Cosmochimica Acta , 80, 108-124, DOI: 10.1016/j.gca.2011.11.044 IF=4,609	34,060
	36. Raiswell, R; Canfield, DE, 2012 , The iron biogeochemical cycle past and present, Geochemical Perspectives , 1/1, 1-220 DOI: 10.7185/geochempersp.1.1, IF=6,75	72,500
	37. Bligh, MW; Waite, TD, 2011 , Formation, reactivity, and aging of ferric oxide particles formed from Fe(II) and Fe(III) sources: Implications for iron bioavailability in the marine environment, Geochimica et Cosmochimica Acta , 75/24, 7741-7758 DOI: 10.1016/j.gca.2011.10.013, IF=4,609	51,090
	38. Raiswell, R, 2011 , Iceberg-hosted nanoparticulate Fe in the Southern Ocean: Mineralogy, origin, dissolution kinetics and source of bioavailable Fe, Deep-Sea Research Part II-Topical Studies In Oceanography , 58/11-12, 1364-1375, DOI: 10.1016/j.dsr2.2010.11.011, IF=1,713	44,260
	39. Shaw, TJ; Raiswell, R; Hexel, CR; Vu, HP; Moore, WS; Dudgeon, R; Smith, KL, 2011 , Input, composition, and potential impact of terrigenous material from free-drifting icebergs in the Weddell Sea, Deep-Sea Research Part II-Topical Studies In Oceanography , 58/11-12, 1376-1383, DOI: 10.1016/j.dsr2.2010.11.012, IF=1,713	6,322
	40. Raiswell, R, 2011 , Iron Transport from the Continents to the Open Ocean: The Aging-Rejuvenation Cycle, Elements , 7/2, 101-106, DOI: 10.2113/gselements.7.2.101, IF=4,038	90,760
	41. Shi, Z; Bonneville, S ; Krom, MD; Carslaw, KS; Jickells, TD; Baker, AR Benning, LG, 2011 , Iron dissolution kinetics of mineral dust at low pH during simulated atmospheric processing, Atmospheric Chemistry And Physics , 11/3, 995-1007, DOI: 10.5194/acp-11-995-2011, IF=5,318	16,622
8. Vu Hong Phuc, Shaw Samuel, Brinza Loredana, Benning Liane G., (2010), Crystallization of hematite (α-Fe ₂ O ₃) under alkaline condition: the effect of Pb" Crystal Growth and Design , Vol 10, No 4, 1544–1551, DOI: 10.1021/cg900782q , FI=4.055 ;	16 citari	
	1. Peterson, Kristina M.; Heaney, Peter J.; Post, Jeffrey E, 2016 , A kinetic analysis of the transformation from akaganeite to hematite: An in situ time-resolved X-ray diffraction study, Chemical Geology , 444 Pages: 27-36, IF=3,347	25,646
	2. Bots, P; Shaw, S; Law, GTW; Marshall, TA; Mosselmans, JFW; Morris, K, 2016 , Controls on the Fate and Speciation of Np(V) During Iron (Oxyhydr)oxide Crystallization, Environmental Science & Technology 50/7, 3382-3390, DOI: 10.1021/acs.est.5b05571, IF=6,198	22,326
	3. Bayle, M; de Vivies, P; Memet, JB; Foy, E; Dillmann, P; Neff, D, 2016 , Corrosion product transformations in alkaline baths under pressure and high temperature: The sub-critical stabilisation of marine iron artefacts stored under atmospheric conditions, Materials And Corrosion-Werkstoffe Und Korrosion , 67/2, 190-199, DOI:	5,866

	10.1002/maco.201508257, IF=1,26 ;	
4.	Brinza, L; Vu, HP; Shaw, S; Mosselmans, JFW; Benning, LG, 2015 , Effect of Mo and V on the Hydrothermal Crystallization of Hematite from Ferrihydrite: An in Situ Energy Dispersive X-ray Diffraction and X-ray Absorption Spectroscopy Study, Crystal Growth & Design , 15/10,4768-4780 DOI: 10.1021/acs.cgd.5b00173, IF=4,055	18,220
5.	Burke, IT; Mosselmans, JFW; Shaw, S; Peacock, CL; Benning, LG; Coker, VS, 2015 , Impact of the Diamond Light Source on research in Earth and environmental sciences: current work and future perspectives, Philosophical Transactions Of The Royal Society A-Mathematical Physical And Engineering Sciences , 373/ 2036, DOI:10.1098/rsta.2013.0151, IF=2,97	9,914
6.	Vu, HP; Moreau, JW, 2015 , Thiocyanate adsorption on ferrihydrite and its fate during ferrihydrite transformation to hematite and goethite, Chemosphere , 119, 987-993 DOI: 10.1016/j.chemosphere.2014.09.019, IF=4,208	47,080
7.	Zhou, GH; Chang, JB; Cui, SM; Pu, HH; Wen, ZH; Chen, JH, 2014 , Real-Time, Selective Detection of Pb ²⁺ in Water Using a Reduced Graphene Oxide/Gold Nanoparticle Field-Effect Transistor Device, ACS Applied Materials & Interfaces , 6/21 19235-19241, DOI: 10.1021/am505275a, IF=7,504	26,683
8.	Das, S; Hendry, MJ, 2014 , Characterization of hematite nanoparticles synthesized via two different pathways, Journal Of Nanoparticle Research , 16/8, DOI: 10.1007/s11051-014-2535-7, IF=2,02	25,200
9.	Marshall, TA; Morris, K; Law, GTW; Livens, FR; Mosselmans, JFW; Bots, P; Shaw, S, 2014 , Incorporation of Uranium into Hematite during Crystallization from Ferrihydrite, Environmental Science & Technology , 48/ 7, 3724-3731 DOI: 10.1021/es500212a, IF =6,198 ;	19,137
10.	Vallina, B; Rodriguez-Blanco, JD; Brown, AP; Benning, LG; Blanco, JA, 2014 , Enhanced magnetic coercivity of alpha-Fe ₂ O ₃ obtained from carbonated 2-line ferrihydrite, Journal Of Nanoparticle Research , 16/3, DOI: 10.1007/s11051-014-2322-5, IF=2,02	10,080
11.	Vu, HP; Shaw, S; Brinza, L; Benning, LG, 2013 , Partitioning of Pb(II) during goethite and hematite crystallization: Implications for Pb transport in natural systems, Applied Geochemistry , 39, 119-128 DOI: 10.1016/j.apgeochem.2013.10.001, IF=2,581	15,405
12.	Stawski, TM ; Benning, LG., 2013 , SAXS in Inorganic and Bioinspired Research, Edited by: Yoreo JJD, Research Methods In Biomineralization Science , Book Series: Methods in Enzymology, 532, 95-127, DOI: 10.1016/B978-0-12-416617-2.00005-9, IF=1,972	24,720
13.	Yang, S; Xu, YY; Sun, YQ; Zhang, GY; Gao, DZ, 2012 , Size-controlled synthesis, magnetic property, and photocatalytic property of uniform alpha-Fe ₂ O ₃ nanoparticles via a facile additive-free hydrothermal route, Crystengcomm , 14/23, 7915-7921, DOI: 10.1039/c2ce25929j, IF=3,474	15,896
14.	Mohapatra, M; Behera, D; Layek, S; Anand, S; Verma, HC; Mishra, BK , 2012 , Influence of Ca Ions on Surfactant Directed Nucleation and Growth of Nano Structured Iron Oxides and Their Magnetic Properties, Crystal Growth & Design , 12/1, 18-28 DOI: 10.1021/cg201124c , IF=4,055	15,183
15.	Xu, YY; Yang, S; Zhang, GY; Sun, YQ; Gao, DZ; Sun, YX, 2011 , Uniform hematite alpha-Fe ₂ O ₃ nanoparticles: Morphology, size-controlled hydrothermal synthesis and formation mechanism, Materials Letters , 65/ 12,1911-1914 DOI: 10.1016/j.matlet.2011.03.085, IF=2,572	10,240
16.	Pienack, N; Bensch, W, 2011 , In-Situ Monitoring of the Formation of Crystalline Solids, Angewandte Chemie-	124,940

	International Edition , 50/9, 2014-2034, DOI: 10.1002/anie.201001180, IF=11,994	
9. Loredana Brinza, Charlotta A. Nygard, Matthew J. Dring, Liane G. Benning, Maria Gavrilescu, (2009), Cadmium tolerance and adsorption by the marine brown alga <i>Fucus vesiculosus</i> from the Irish Sea and the Bothnian Sea, <i>Bioresource Technology</i> , Vol. 100, No 5, 1727-1733, doi:10.1016/j.biortech.2008.09.041 , IF=5,651	<p align="center">36 citari</p> <p>1. J Costa, GB; Simioni, C; Pereira, DT; Ramlov, F; Maraschin, M; Chow, F; Horta, PA; Bouzon, ZL; Schmidt, EC, Costa, Giulia B.; Simioni, Carmen; Pereira, Debora T.; Ramlov, Fernanda; Maraschin, Marcelo; Chow, Fungyi; Horta, Paulo A.; Bouzon, Zenilda L.; Schmidt, Eder C., 2017, The brown seaweed <i>Sargassum cymosum</i>: changes in metabolism and cellular organization after long-term exposure to cadmium, Protoplasma, 254/2, 817-837, IF=2,87</p> <p>2. J Henriques, B; Lopes, CB; Figueira, P; Rocha, LS; Duarte, AC; Vale, C; Pardal, MA; Pereira, E, Henriques, Bruno; Lopes, Claudia B.; Figueira, Paula; Rocha, Luciana S.; Duarte, Armando C.; Vale, Carlos; Pardal, Miguel A.; Pereira, Eduarda, 2017, Bioaccumulation of Hg, Cd and Pb by <i>Fucus vesiculosus</i> in single and multi-metal contamination scenarios and its effect on growth rate, Chemosphere, 171, 208-222, IF=4,208</p> <p>3. B Hlihor, RM; Apostol, LC; Gavrilescu, M Anjum, NA; Gill, SS; Tuteja, N Hlihor, Raluca-Maria; Apostol, Laura-Carmen; Gavrilescu, Maria, 2017, Environmental Bioremediation by Biosorption and Bioaccumulation: Principles and Applications, 2017, Enhancing Cleanup Of Environmental Pollutants, Vol 1, Biological Approaches</p> <p>4. Korenkova, Lucia; Urik, Martin, 2017, Biosorbents, in Book Biomaterials As Adsorbents For Metal(Loid) Water Pollutants - A Review edited by Korenkova, L; Urik, M, Pages: 12-36</p> <p>5. Costa, Giulia Burle; Simioni, Carmen; Ramlov, Fernanda; Maraschinb Marcelo; Chowc Fungyi; Bouzona L. Zenilda; Schmidt C. Éder, 2017, Effects of manganese on the physiology and ultrastructure of <i>Sargassum cymosum</i>, Environmental And Experimental Botany, 133, 24-34 , IF=4,369</p> <p>6. Mangal, V; Zhu, Y; Shi, YX; Gueguen, C, 2016, Assessing cadmium and vanadium accumulation using diffusive gradient in thin-films (DGT) and phytoplankton in the Churchill River estuary, Manitobal, Chemosphere, 163, 90-98 DOI: 10.1016/j.chemosphere.2016.08.008, IF= 3,208</p> <p>7. Uslu, H; Datta, D; Azizian, S, 2016, Separation of chromium (VI) from its liquid solution using new montmorillonite supported with amine based solvent, Journal Of Molecular Liquids, 215, 449-453, DOI: 10.1016/j.molliq.2016.01.023. IF=3,648;</p> <p>8. Costa, GB; de Felix, MRL; Simioni, C; Ramlov, F; Oliveira, ER; Pereira, DT; Maraschin, M; Chow, FY; Horta, PA; Lalau, CM; da Costa, CH; Matias, WG; Bouzon, ZL; Schmidt, EC, 2016, Effects of copper and lead exposure on the ecophysiology of the brown seaweed <i>Sargassum cymosum</i>, Protoplasma, 253/1,111-125 DOI: 10.1007/s00709-015-0795-4, IF=2,87;</p> <p>9. Schmidt, EC (Schmidt, Eder C.); Felix, MRD (Felix, Marthiellen R. de L.); Polo, LK (Polo, Luz K.); Kreusch, MG (Kreusch, Marianne G.); Pereira, DT; Costa, GB; Simioni, C; Martins, RD; Latini, A; Chow, F; Ramlov, F; Pereira, A; Maraschin, M; Ouriques, LC; Steiner, N; Bouzon, ZL, 2015, Influence of cadmium and salinity in the red alga <i>Pterocladia capillacea</i>: cell morphology, photosynthetic performance and antioxidant systems, Brazilian Journal Of Botany, 38/4, 737-749, DOI: 10.1007/s40415-015-0183-5, IF=0,797</p> <p>10. Zhang, AQ ; Xu, T; Zou, HX; Pang, QY, 2015, Comparative proteomic analysis provides insight into cadmium stress responses in brown algae <i>Sargassum fusiforme</i>, Aquatic Toxicology, 163, 1-15, DOI:</p>	<p align="center">3,744</p> <p align="center">5,885</p> <p align="center">13,911</p> <p align="center">23,117</p> <p align="center">27,653</p> <p align="center">4,814</p> <p align="center">1,621</p> <p align="center">23,145</p>

	10.1016/j.aquatox.2015.03.018, IF=4,129 ;	
11.	Hlihor, RM; Diaconu, M; Leon, F ; Curteanu, S; Tavares, T; Gavrilesu, M, 2015 , Experimental analysis and mathematical prediction of Cd(II) removal by biosorption using support vector machines and genetic algorithms, New Biotechnology , 32/3, 358-368, DOI: 10.1016/j.nbt.2014.08.003, IF=3,813	14,376
12.	Apostol, LC; Smaranda, C; Diaconu, M; Gavrilesu, M, 2015 , Preliminary ecotoxicological evaluation of erythrosin b and its photocatalytic degradation products, Environmental Engineering And Management Journal , 14/2, 465-471, IF=1,096	7,980
13.	Keskin, NOS; Celebioglu, A; Sarioglu, OF; Ozkan, AD; Uyar, T; Tekinay, T, 2015 , Removal of a reactive dye and hexavalent chromium by a reusable bacteria attached electrospun nanofibrous web, RSC Advances , 5/106, 86867-86874 DOI: 10.1039/, IF=3,108	12,020
14.	Majid, Noraishah A.; Ramli, Nur Syazila; Phang, Ing Chia, 2015, Pelargonium radula as a plant bioindicator in monitoring mercury in drinking water, Jurnal Teknologi , 77/ 24, 29-34 , IF=NA	
15.	Hlihor, RM; Bulgariu, L; Sobariu, DL ; Diaconu, M; Tavares, T; Gavrilesu, M, 2014, recent advances in biosorption of heavy metals: support tools for biosorption equilibrium, kinetics and mechanism, Revue Roumaine de Chimie , 59/6-7, 527-538, IF= 0,246	2,486
16.	Cobas, M ; Sanroman, MA; Pazos, M, 2014 , Box-Behnken methodology for Cr (VI) and leather dyes removal by an eco-friendly biosorbent: F-vesiculosus, Bioresource Technology , 160, 166-174 DOI: 10.1016/j.biortech.2013.12.125, IF=5,651 ;	41,006
17.	Jaafarzadeh, N ; Teymouri, P; Babaei, AA; Alavi, N; Ahmadi, M, 2014, Biosorption of Cadmium (II) from Aqueous Solution by NaCl-Treated Ceratophyllum Demersum, Environmental Engineering and Management Journal , 13/4, 763-773, IF=1,096 ;	6,384
18.	San, NO; Celebioglu, A; Tumtas, Y; Uyar, T; Tekinay, T, 2014 , Reusable bacteria immobilized electrospun nanofibrous webs for decolorization of methylene blue dye in wastewater treatment, RSC Advances , 4/61, 32249-32255 DOI: 10.1039/c4ra04250f IF=3,108 ;	14,432
19.	Hurd, CL; Harrison, PJ; Bischof, K; Lobban, CS, Book Author(s): Hurd, CL; Harrison, PJ; Bischof, K; Lobban, CS, 2014 , Seaweed Ecology and Physiology Second Edition Preface, Seaweed Ecology and Physiology , 2nd Edition, DOI: 10.1017/CBO9781139192637, IF=NA	
20.	Muthusamy, S; Venkatachalam, S; Jeevamani, PMK; Rajarathinam, N, 2014, Biosorption of Cr(VI) and Zn(II) ions from aqueous solution onto the solid biodiesel waste residue: mechanistic, kinetic and thermodynamic studies, Environmental Science and Pollution Research , 21/1, 593-608 DOI: 10.1007/s11356-013-1939-8, IF=2,741	16,205
21.	Pavel, VL; Sobariu, DL; Diaconu, M; Statescu, F; Gavrilesu, M, 2013 , Effects Of Heavy Metals On Lepidium Sativum Germination And Growth, Environmental Engineering and Management Journal , 12/4, 727-733, IF=1,096 ;	6,384
22.	Ghaedi, M; Hajati, S; Barazesh, B; Karimi, F; Ghezelbash, G, 2013 , Saccharomyces cerevisiae for the biosorption of basic dyes from binary component systems and the high order derivative spectrophotometric method for simultaneous analysis of Brilliant green and Methylene blue, Journal Of Industrial and Engineering Chemistry , 19/1, 227-233 DOI: 10.1016/j.jiec.2012.08.006, IF=4,421	19,684

	23. Cankilic, MY; Karabacak, RB; Tay, T; Kivanc, M , 2013 , Sorption of lead ions from aqueous solution onto Enterococcus faecium biomass, Water Science and Technology , 68/7, 1550-1555 DOI: 10.2166/wst.2013.398, IF=1,197	8,485
	24. Bulgariu, L; Lupea, M; Bulgariu, D; Rusu, C; Macoveanu, M, 2013 , Equilibrium Study Of Pb(II) And Cd(II) Biosorption From Aqueous Solution On Marine Green Algae Biomass, Environmental Engineering and Management Journal , 12/1, 183-190, IF=1,096 ;	6,384
	25. Bulgariu, L; Hlihor, RM; Bulgariu, D; Gavrilesu, M, 2012 , Sorptive Removal of Cadmium(II) Ions from Aqueous Solution by Mustard Biomass, Environmental Engineering and Management Journal 11/11, 1969-1976, IF=1,096	7,980
	26. Fertu, DIT; Gavrilesu, M, 2012 , Application of natural zeolites as sorbents in the clean-up of aqueous streams, Environmental Engineering And Management Journal , 11/4, 867-878, IF=1,096 ;	15,960
	27. Lupea, M; Bulgariu, L; Macoveanu, M, 2012 , Biosorption of Cd(II) from Aqueous Solution on Marine Green Algae Biomass, Environmental Engineering And Management Journal , 11/3, 607-615, IF=1,096	10,640
	28. Strady, E; Schafer, J; Baudrimont, M; Blanc, G, 2011 , Tracing cadmium contamination kinetics and pathways in oysters (Crassostrea gigas) by multiple stable Cd isotope spike experiments, Ecotoxicology and Environmental Safety , 74/4, 600-606 DOI: 10.1016/j.ecoenv.2010.10.020, IF=3,743	21,215
	29. Caliman, FA; Robu, BM; Smaranda, C; Pavel, VL; Gavrilesu, M, 2011 , Soil and groundwater cleanup: benefits and limits of emerging technologies, Clean Technologies and Environmental Policy , 13/2, 241-268 DOI: 10.1007/s10098-010-0319-z, IF=3,331	15,324
	30. Gao, JF; Zhang, Q; Su, K; Wang, JH, 2010 , Competitive biosorption of Yellow 2G and Reactive Brilliant Red K-2G onto inactive aerobic granules: Simultaneous determination of two dyes by first-order derivative spectrophotometry and isotherm studies, Bioresource Technology , 101/15, 5793-5801, DOI: 10.1016/j.biortech.2010.02.091, IF= 5,651 ;	30,755
	31. Li, JT; Duan, HN; Li, SP; Kuang, JL; Zeng, Y; Shu, WS, 2010 , Cadmium pollution triggers a positive biodiversity-productivity relationship: evidence from a laboratory microcosm experiment, Journal of Applied Ecology , 47/4, 890-898, DOI: 10.1111/j.1365-2664.2010.01818.x, IF=5,301 ;	19,336
	32. Gavrilesu, M, 2010 , Biosorption in Environmental Remediation, Edited by: Fulekar MH, Bioremediation Technology: Recent Advances , 35-99, IF= NA	
	33. Agunbiade, FO (Agunbiade, Foluso O.); Olu-Owolabi, BI (Olu-Owolabi, Bamidele I.); Adebowale, KO (Adebowale, Kayode O.), 2009 , Phytoremediation potential of Eichornia crassipes in metal-contaminated coastal water, Bioresource Technology , 100/19, 4521-4526, DOI: 10.1016/j.biortech.2009.04.011, IF= 5,651 ;	41,006
	34. Lucaci, D; Duta, A, 2009 , Adsorption of Cu ²⁺ On White Poplar and Oak Sawdust, Environmental Engineering and Management Journal , 8/4, 871-876, IF=1,096	15,960
	35. Apostol, LC; Gavrilesu, M, 2009, Application of Natural Materials as Sorbents for Persistent Organic Pollutants, Environmental Engineering and Management Journal , 8/2, 243-252, IF=1,096	15,960
	36. Hlihor, RM; Gavrilesu, M, 2009 , Removal of Some Environmentally Relevant Heavy Metals Using Low-Cost Natural Sorbents, Environmental Engineering and Management Journal , 8/2, 353-372, IF=1,096 ;	15,960

10. Loredana Brinza, Liane G. Benning, Peter J. Statham, (2008), Adsorption studies of Mo and V onto ferrihydrite, <u>Loredana Brinza</u> , Liane G. Benning, Peter J. Statham, (2008), Adsorption studies of Mo and V onto ferrihydrite, Mineralogical Magazine , Vol. 72, No1, 107–110; doi:10.1180/minmag.2008.072.1.385 , FI=1.285	19 citari		
	1. Bolanz, Ralph M.; Grauer, Christoph; Cooper, Rebecca E; Gottlicher, J; Steininger, R; Perry, S; Kusel, K; 2017 , Incorporation of molybdenum(VI) in akaganeite (beta-FeOOH) and the microbial reduction of Mo-akaganeite by Shewanella loihica PV-4, Crystengcomm , 19/41, 6189-6198, IF=3,474		11,354
	2. Smedley, Pauline L.; Kinniburgh, David G., 2017 , Molybdenum in natural waters: A review of occurrence, distributions and controls: Applied Geochemistry , 84, 387-432, IF=2,581		30,810
	3. Gao, B ; Gao, L; Zhou, Y ; Xu, DY; Zhao, XJ, 2017 , Evaluation of the dynamic mobilization of vanadium in tributary sediments of the Three Gorges Reservoir after water impoundment, Journal Of Hydrology , 551 Special Issue: SI, 92-99, IF=3,483		15,932
	4. Larsson, Maja A.; Hadialhejazi, Golshid; Gustafsson Jon Petter 2017, Vanadium sorption by mineral soils: Development of a predictive model, Chemosphere , 168, 925-932; IF=4,208		31,386
	5. Larsson, Maja A.; Persson, Ingmar; Sjoestedt, Carin; Gustafsson, Jon Petter., 2017 , Vanadate complexation to ferrihydrite: X-ray absorption spectroscopy and CD-MUSIC modelling, Environmental Chemistry , 14/ 3, 141-150, IF=3,516		20,080
	6. Pieczara, Gabriela; Rzepa, Grzegorz, 2016 , The Effect Of Si Content On Ferrihydrite Sorption Capacity For Pb(II), Cu(II), Cr(VI), And P(V), Environmental Engineering And Management Journal , 15/9 , 2095-2107, IF=1,096		15,960
	7. Breit, George N., 2016, Resource Potential for Commodities in Addition to Uranium in Sandstone-Hosted Deposits, in RARE EARTH AND CRITICAL ELEMENTS IN ORE DEPOSITS, Edited by: Verplanck, PL; Hitzman, MW, Book Series: Reviews in Economic Geology , 18, 323-337,		
	8. Neveu, M; Poret-Peterson, AT; Anbar, AD; Elser, JJ, 2016 , Ordinary stoichiometry of extraordinary microorganisms, Geobiology , 14/1, 33-53 DOI: 10.1111/gbi.12153, IF=3,462 ;		19,810
	9. Huang, JH (Huang, Jen-How); Huang, F (Huang, Fang); Evans, L (Evans, Les); Glasauer, S, 2015, Vanadium: Global (bio)geochemistry, Chemical Geology , 417,: 68-89, DOI: 10.1016/j.chemgeo.2015.09.019, IF=3,347		19,235
	10. Veeramani, H; Eagling, J ; Jamieson-Hanes, JH; Kong, LY; Ptacek, CJ; Blowes, DW, 2015 , Zinc Isotope Fractionation as an Indicator of Geochemical Attenuation Processes, Environmental Science & Technology Letters , 2/11, 314-319 DOI: 10.1021/acs.estlett.5b00273, IF=5,308		19,360
	11. Brinza, L; Vu, HP; Shaw, S; Mosselmans, JFW; Benning, LG, 2015 , Effect of Mo and V on the Hydrothermal Crystallization of Hematite from Ferrihydrite: An in Situ Energy Dispersive X-ray Diffraction and X-ray Absorption Spectroscopy Study, Crystal Growth & Design , 15/10, 4768-4780, DOI: 10.1021/acs.cgd.5b00173 , IF= 4,055		18,22
	12. Hu, YD; Neil, C; Lee, B; Jun, YS, 2013, Control of Heterogeneous Fe(III) (Hydr)oxide Nucleation and Growth by Interfacial Energies and Local Saturations, Environmental Science & Technology , 47/16, 9198-9206, DOI: 10.1021/es401160g, IF=6,198		33,495
	13. Jacobson, KH; Kuech, TR; Pedersen, JA, 2013 , Attachment of Pathogenic Prion Protein to Model Oxide Surfaces, Environmental Science & Technology , 47/13, 6925-6934, DOI: 10.1021/es3045899, IF=6,198		44,653
	14. Rout, K; Mohapatra, M; Anand, S, 2012 , 2-Line ferrihydrite: synthesis, characterization and its adsorption		30,193

	behaviour for removal of Pb(II), Cd(II), Cu(II) and Zn(II) from aqueous solutions, Dalton Transactions , 41/11, 3302-3312, DOI: 10.1039/c2dt11651k, IF= 4,029	
	15. Kashiwabara, T; Takahashi, Y; Tanimizu, M; Usui, A, 2011 , Molecular-scale mechanisms of distribution and isotopic fractionation of molybdenum between seawater and ferromanganese oxides, Geochimica et Cosmochimica Acta , 75/19, 5762-5784, DOI: 10.1016/j.gca.2011.07.022, IF=4,609 ,	25,545
	16. Moller, T; Bagchi, D; Sylvester, P, 2011 , Field pilot evaluations of iron oxide-based arsenic adsorption media, Journal American Water Works Association , 103/1, 93, IF=0,687	7,913
	17. Noubactep, C; Care, S Chemical Engineering Journal , 163/3, 454-460, DOI: 10.1016/j.cej.2010.07.051, IF=6,216	67,160
	18. Noubactep, C; Schoner, A, 2010 , Metallic Iron: Dawn of A New Era Of Drinking Water Treatment Research?, Fresenius Environmental Bulletin , 19/8A, 1661-1668, IF=0,425	9,25
	19. Gerke, TL; Scheckel, KG; Schock, MR, 2009 , Identification and Distribution of Vanadinite (Pb-5(V5+O4)(3)Cl in Lead Pipe Corrosion By-Products, Environmental Science & Technology , 43/2 4412-4418, DOI: 10.1021/es900501t, IF=6,198	44,653
11. Loredana Brinza, Matthew J. Dring, Maria Gavrilescu, (2007), Marine micro and macro algal species as biosorbents for heavy metals treatment - review, Environmental Engineering and Management Journal , Vol. 6, No. 3, 237-251, FI=1,096	29citari	
	1. Podder, M. S.; Majumder, C. B. , 2017 , Prediction of phycoremediation of As(III) and As(V) from synthetic wastewater by Chlorella pyrenoidosa using artificial neural network, Applied Water Science , 7/7, 3949-3971	
	2. Zarate, A; Florez, J; Angulo, E; Varela-Prieto, L; Infante, C; Barrios, F; Barraza, B; Gallardo, DI; Valdes, J; Zarate, Ana; Florez, July; Angulo, Edgardo; Varela-Prieto, Lourdes; Infante, Cherlys; Barrios, Fredy; Barraza, Beatriz; Gallardo, D. I.; Valdes, Jorge; 2017 , Burkholderia tropica as a Potential Microalgal Growth-Promoting Bacterium in the Biosorption of Mercury from Aqueous Solutions, Journal Of Microbiology And Biotechnology , 27/6, 1138-1149, IF=1,75	2,647
	3. J Zhang, ML; Wang, HX; McDonald, LM; Hu, ZQ; Zhang, Mingliang; Wang, Haixia; McDonald, Louis M.; Hu, Zhenqi, 2017 , Competitive Biosorption Of Pb(II), Cu(II), Cd(II) And Zn(II) Using Composted Livestock Waste In Batch And Column Experiments, Environmental Engineering And Management Journal , IF=1,096	3,546
	4. Hlihor RM; Apostol LC; Gavrilescu, M; 2017 , Environmental Bioremediation by Biosorption and Bioaccumulation: Principles and Applications, in Enhancing Cleanup Of Environmental Pollutants , Edited by Anjum, NA; Gill, SS; Tuteja, N; Hlihor, Raluca-Maria; Apostol, Laura-Carmen; Gavrilescu, Maria, Vol 1: Biological Approaches , 289-315	
	5. Korenkova, L; Urik, M; 2017 , Biosorbents in Biomaterials As Adsorbents For Metal(Loid) Water Pollutants - A Review ; Edited by Korenkova, Lucia; Urik, Martin, Korenkova, L; Urik, M, 12-36	
	6. Majumdar, Dipanwita, 2017 , Detoxification of Heavy Metal Ion-Contaminated Drinking Water by Green Technology - A Short Overview, Current Green Chemistry , 4/1, 38-44	
	7. Al-Qodah, Z; Al-Shannag, M; Amro, A; Assirey, E; Bob, M; Bani-Melhem, K; Alkasrawi, M, 2017 , Impact of surface modification of green algal biomass by phosphorylation on the removal of copper(II) ions from water, Turkish Journal Of Chemistry , IF=1,292	5,120
	8. Zinicovscaia, I; Cepoi, L; Chiriac, T; Culicov, OA; Frontasyeva, M; Pavlov, S; Kirkesali, E; Akshintsev, A;	4,735

	Rodlovskaya, E , 2016 , Spirulina platensis as biosorbent of chromium and nickel from industrial effluents, Desalination and Water Treatment , 57/24, 11103-11110 DOI: 10.1080/19443994.2015.1042061, IF=1,631	
	9. Kaliyamurthi, Satyavani; Selvaraj, Gurudeeban; Cakmak, Zeynep -Elibol; Cakmak, Turgay, 2016, Production and characterization of spherical thermostable silver nanoparticles from Spirulina platensis (Cyanophyceae), Phycologia , 55/5, 568-576, IF=1,826	11,630
	10. Sundaramoorthy, B; Thiagarajan, K; Mohan, S; Mohan, S; Rao, PR; Ramamoorthy, S; Chandrasekaran, R, 2016 , Biomass characterisation and phylogenetic analysis of microalgae isolated from estuaries: Role in phycoremediation of tannery effluent, Algal Research-Biomass Biofuels And Bioproducts , 14, 92-99 DOI: 10.1016/j.algal.2015.12.016, IF=3,994	12,840
	11. Slaba, Mirosława; Hryniewicz, Katarzyna; Gadd, Geoffrey M., 2016 , Heavy Metal Removal by Microbial Cells, in Microbial Biodegradation: From Omics To Function And Application Edited by: Dlugonski, J, 197-218	
	12. Kearns, J; Turner, A, 2016 , An evaluation of the toxicity and bioaccumulation of bismuth in the coastal environment using three species of macroalga, Environmental Pollution , 208, 435-441, DOI: 10.1016/j.envpol.2015.10.011, IF=5,009 ;	55,090
	13. Wang, Y; Wang, S; Xu, PP; Liu, C; Liu, MS; Wang, YL; Wang, CH; Zhang, CH; Ge, Y, 2015 , Review of arsenic speciation, toxicity and metabolism in microalgae, Reviews In Environmental Science And Bio-Technology , 14/3, 427-451, DOI: 10.1007/s11157-015-9371-9, IF=4,4	10,880
	14. Bacsi, I; Novak, Z; Janosky, M; B-Beres, V; Grigorszky, I; Nagy, SA, 2015 , The sensitivity of two Monoraphidium species to zinc: their possible future role in bioremediation, International Journal Of Environmental Science And Technology , 12/8, 2455-2466, DOI: 10.1007/s13762-014-0647-3, IF=1,915	8,050
	15. Kumar, KS; Dahms, HU; Won, EJ; Lee, JS; Shin, KH, 2015 , Microalgae - A promising tool for heavy metal remediation, Ecotoxicology and Environmental Safety , 113, 329-352 DOI: 10.1016/j.ecoenv.2014.12.019, IF=3,743	16,972
	16. Kutner, A.; Nesbitt, 2015 , V. ALGAL BIOSORPTION - IS IT A VIABLE ALTERNATIVE IN TREATMENT OF RADIOACTIVELY CONTAMINATED EFFLUENTS?, Edited by: Warwick, P, Conference: 12th International Symposium on Nuclear and Environmental Radiochemical Analysis (ERA) Location: Bath, ENGLAND Date: SEP 17-19, 2014, Sponsor(s): AWE; Natl Nucl Lab; RWM, ENVIRONMENTAL RADIOCHEMICAL ANALYSIS V Book Series: Royal Society of Chemistry Special Publications Issue: 351, 122-133,	
	17. Hasani, E; Farnam, M; Asl, SMH; Katal, R; Rastegar, SO, 2015 , Batch And Column Removal Of Chromium (Vi) From Aqueous Solution Using Polypyrrole, Environmental Engineering And Management Journal , 14/1, 17-28, IF=1,096	6,384
	18. Monikh, FA (Monikh, Faze Abdolapur); Karami, O (Karami, Omid); Hosseini, M (Hosseini, Mehdi); Karami, N (Karami, Naser); Bastami, AA (Bastami, Afshin Abdi); Ghasemi, AF (Ghasemi, Amir Faraz), 2013 , The effect of primary producers of experimental aquatic food chains on mercury and PCB153 biomagnification, Ecotoxicology And Environmental Safety , 94, 112-115 DOI: 10.1016/j.ecoenv.2013.05.013, IF=3,743 ;	14,143
	19. Keng, PS; Lee, SL; Ha, ST; Hung, YT; Ong, ST, 2013 , Cheap Materials to Clean Heavy Metal Polluted Waters, in Green materials for energy, products and depollution Edited by: Lichtfouse E; Schwarzbauer J; Robert D	

	Book Series: Environmental Chemistry for a Sustainable World , 3, 335-414 DOI: 10.1007/978-94-007-6836-9_8 IF=NA	
	20. Sharma, RK; Adholeya, A; Das, M; Puri, A, 2013 , Green Materials for Sustainable Remediation of Metals in Water, in Green Materials for Sustainable Water Remediation and Treatment Edited by: Mishra A; Clark JH, Book Series: RSC Green Chemistry Series , Issue: 23, 11-29, DOI: 10.1039/9781849735001-00011, IF=NA	
	21. Bulgariu, L; Lupea, M; Bulgariu, D; Rusu, C; Macoveanu, M 2013 , equilibrium study of Pb(II) and Cd(II) biosorption from aqueous solution on marine green algae biomass, Environmental Engineering and Management Journal , 12/1, 183-190, IF=1,096	6,384
	22. Fertu, DIT; Gavrilescu, M, 2012, Application of Natural Zeolites as Sorbents in the Clean-up of Aqueous Streams, Environmental Engineering and Management Journal , 11/4, 867-878, IF=1,096	15,960
	23. Pena-Salamanca, EJ; Rengifo-Gallego, AL; Benitez-Campo, N, 2012 , Detoxification Mechanisms of Heavy Metals by Algal-Bacteria Consortia, in Handbook of Marine Macroalgae: Biotechnology and Applied Phycology , Edited by Kim, 441-450, IF=NA	
	24. Karaduman, AB; Yamac, M; Pat, Z; Amoroso, MJ; Cuozzo, SA, 2011 , lead (II) biosorption by a metal tolerant streptomyces strain, Environmental Engineering and Management Journal , 10/11, 1761-1771, IF=1,096	6,384
	25. Lucaci, D; Duta, A, 2009 , Adsorption of Cu ²⁺ on white poplar and oak sawdust, Environmental Engineering and Management Journal , 8/4, 871-876, IF=1,096	15,960
	26. Wang, JL; Chen, C, 2009 , Biosorbents for heavy metals removal and their future, Biotechnology Advances , 27/ 2, 195-226, DOI: 10.1016/j.biotechadv.2008.11.002, IF=10,598	110,98
	27. Hlihor, RM; Gavrilescu, M, 2009, Removal of Some Environmentally Relevant Heavy Metals Using Low-Cost Natural Sorbents, Environmental Engineering and Management Journal , 8/2, 353-372, IF=1,096 ;	15,960
	28. Chen, C; Wang, JL, 2009 , Biosorbents, in Fundamentals and Applications of Biosorption Isotherms, Kinetics and Thermodynamics, Edited by: Liu Y; Wang J, Book Series: Environmental Science Engineering and Technology, 29-80, IF=	
	29. Chen, C; Wang, JL, 2009 , Factors influencing biosorption process in Fundamentals and Applications of Biosorption Isotherms, Kinetics and Thermodynamics, Edited by: Liu Y; Wang J, Book Series: Environmental Science Engineering and Technology, 213-229, IF=	
12. Simona Pintilie, <u>Loredana Brinza</u> , Camelia Betianu, Lucian Vasile Pavel, Florina Ungureanu, Maria Gavrilescu, (2007), Modelling and simulation of heavy metals transport in water and sediments, Environmental Engineering and	11 citari	
	1. Kuriata-Potasznik, Angela; Szymczyk, Slawomir; Skwierawski, Andrzej; Glinska-Lewczuk, K, Cymes, I 2016, Heavy Metal Contamination in the Surface Layer of Bottom Sediments in a Flow-Through Lake: A Case Study of Lake Symsar in Northern Poland, WATER , 8/8, IF=1,832	9,328
	2. Preda, C; Vasiliu, I; Bredetean, O; Gabriela, CD; Ungureanu, MC; Leustean, EL; Grigorovici, A; Oprisa, C; Vulpoi, C, 2016 , Selenium in the environment: essential or toxic to human health?, Environmental Engineering and Management Journal , 15/4, 913-921, IF= 1,096 ;	3,546
	3. Cartacuzencu, S; Coman, A; Rosu, G; Tincu, R; Lazar, G, 2016 , Analysis of hydric erosion produced by the Siret river, Romania during 1989-2008, Environmental Engineering and Management Journal , 15/3, 537-	6,384

Management Journal , Vol. 6, No. 2, 153-161, FI: 1.258/2013;	544, IF=1,096 ;	
	4. Sabullah, MK; Sulaiman, MR; Shukor, MS; Yusof, MT; Johari, WLW; Shukor, MY; Syahir, A, 2015 , Heavy metals biomonitoring via inhibitive assay of acetylcholinesterase from <i>Periophthalmodon schlosseri</i> , Rendiconti Lincei-Scienze Fisiche E Naturali , 26/2, 151-158, DOI: 10.1007/s12210-014-0359-0, IF=0,693	3,408
	5. Berkun, M; Aras, E; Akdemir, UO, 2015, Water Runoff, Sediment Transport and Related Impacts in the Southeastern Black Sea Rivers, Environmental Engineering and Management Journal , 14/4, 781-792, IF=1,096 ,	10,640
	6. Faciu, ME; Lazar, I; Ifrim, I; Ureche, C; Lazar, G, 2014, Exploratory spatial data analysis of heavy metals concentration in two sampling sites on Siret river, Environmental Engineering and Management Journal , 13/9, 2179-2186, IF=1,096 ,	6,384
	7. Cartacuzencu, S; Lazar, I; Nedeff, V; Lazar, G, 2014 Technical Solution to Reduce Soil Erosion Produced by Tazlau River In Tarata Perimeter, Romania, Environmental Engineering and Management Journal , 13/8, 1971-1978, IF=1,096	7,980
	8. Tevi, G; Scradeanu, D; Tevi, A; Grigore, F, 2010 , Shallow aquifer pollution with heavy metals and aluminium in neferal area. Environmental Engineering and Management Journal , 9/11, 1481-1486, IF=1,096	7,980
	9. Pavel, VL; Bulgariu, D; Bulgariu, L; Hlihor, RM; Gavrilesu, M, 2009 , Studies on sorption and transport processes of cadmium in soils, Environmental Engineering and Management Journal , 8/6, 1315-1320, IF=1,096	6,384
	10. Gavrilesu, M, 2009 , Emerging processes for soil and groundwater cleanup - potential benefits and risks, Environmental Engineering and Management Journal , 8/5, 1293-1307, IF=1,096 ;	31,92
	11. Hlihor, RM; Gavrilesu, M, 2009 , Removal of some environmentally relevant heavy metals using low-cost natural sorbents, Environmental Engineering and Management Journal , 8/2, 353-372, IF=1,096	15,96
	8 citati	
13. Loredana Brinza, Matthew J. Dring, Maria Gavrilesu, (2005), Biosorption of Cu (2+) ions from aqueous solution by-Enteromorpha sp, Environmental Engineering and Management Journal, Vol.4, No.1, 41-51, FI=1,096;	1. M Gavrilesu, LV Pavel, I Cretescu, 2009 , Characterization and remediation of soils contaminated with uranium, Journal of Hazardous Materials , 135(2-3), 475-510, IF=6,065 ;	43,766
	2. M Gavrilesu, 2005 , Fate of pesticides in the environment and its bioremediation Engineering in Life Sciences , 5 (6) , 497–526, IF=1,698 ;	43,96
	3. Florentina Anca Caliman , Brindusa Mihaela Robu , Camelia Smaranda , Vasile Lucian Pavel , Maria Gavrilesu , 2011 , Soil and groundwater cleanup: benefits and limits of emerging technologies, Clean Technologies and Environmental Policy , 13/2, 241-268: IF= 3,331 ;	15,324
	4. M Gavrilesu, 2009, Behaviour of persistent pollutants and risks associated with their presence in the environment–integrated studies, Environmental Engineering and Management Journal , IF=1.096	31,920
	5. M Gavrilesu, 2010 , Environmental biotechnology: achievements, opportunities and challenges, Dynamic Biochemistry, Process Biotechnology and Molecular Biology	
	6. Simona Pintilie, Loredana Brinză, Camelia Bețianu, Lucian Vasile Pavel, Florina Ungureanu, Maria Gavrilesu, 2007 , Modelling and simulation of heavy metals transport in water and sediments, Environmental Engineering	5,320

	and Management Journal , Vol. 6, No. 2, 153-161, IF=1.096	
	7. A Kicsi, C Cojocaru, M Macoveanu, Doina Balba, 2006 , Optimization of batch process variables using response surface methodology for Cu ²⁺ removal from aqueous solution by peat adsorbent, Environmental Engineering and Management Journal , Vol.5, No.6, 1291-1300, IF=1.096	7,980
	8. Ayşe Betül Karaduman, Mustafa Yamaç, Zerrin Pat, Maria Julia Amoroso, Sergio Antonio Cuzzo, 2011 , Lead (II) biosorption by a metal tolerant streptomyces strain, Environmental Engineering and Management Journal , Vol.10,1761-1771, IF=1.096	6,384
14. Loredana Brinza, Maria Gavrilescu, (2003), pH Effect on the Biosorption of Cu (2+) from Aqueous Solution by <i>Saccharomyces Cerevisiae</i> , Environmental Engineering and Management Journal , Vol.2, No.3, 243-254, FI=1,096 ;	3 citari	
	1 M Gavrilescu, 2009 , Behaviour of persistent pollutants and risks associated with their presence in the environment–integrated studies, Environmental Engineering and Management , Vol. 8, Issue 6, 1517, IF=1.096	31,92
	2 M Gavrilescu, 2010 , Environmental biotechnology: achievements, opportunities and challenges, Dynamic Biochemistry, Process Biotechnology and Molecular Biology , IF=NA	
	3 D Suteu, I Volf, M Macoveanu, 2006 , Ligno–cellulosic materials for wastewater treatment, Environmental Engineering and Management Vol.5, No.2, 119-134, IF=1.096	10,640
TOTAL		3830,766

Data: 04/12/2017

Semnatura:

