

Maria Teodora Radu

List of Publications by Year in descending order

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50
papers

1,383
citations

331670
21
h-index

345221
36
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50
all docs

50
docs citations

50
times ranked

2150
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-platinum catalyst based on sulfur doped graphene for methanol oxidation in alkaline media. <i>Materials Today Energy</i> , 2021, 19, 100588.	4.7	13
2	Raman spectra tell us so much more: Raman features and saturation magnetization for efficient analysis of manganese zinc ferrite nanoparticles. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 959-968.	2.5	24
3	Au/reduced graphene oxide composites: eco-friendly preparation method and catalytic applications for formic acid dehydrogenation. <i>Journal of Materials Science</i> , 2019, 54, 6991-7004.	3.7	20
4	Correlation between synthesis parameters and properties of magnetite clusters prepared by solvothermal polyol method. <i>Journal of Materials Science</i> , 2019, 54, 2853-2875.	3.7	29
5	Development of a novel biomaterial with an important osteoinductive capacity for hard tissue engineering. <i>Tissue and Cell</i> , 2018, 52, 101-107.	2.2	12
6	Plasmonic photocatalysts based on silver nanoparticles α -layered double hydroxides for efficient removal of toxic compounds using solar light. <i>Applied Surface Science</i> , 2018, 444, 407-413.	6.1	24
7	Effects of rare earth doping on multi-core iron oxide nanoparticles properties. <i>Applied Surface Science</i> , 2018, 428, 492-499.	6.1	24
8	Surface functionalization of Fe ₃ O ₄ @SiO ₂ core-shell nanoparticles with vinylimidazole-rare earth complexes: Synthesis, physico-chemical properties and protein interaction effects. <i>Applied Surface Science</i> , 2018, 453, 457-463.	6.1	15
9	X-Ray Photoelectron Spectroscopic Characterization of Iron Oxide Nanoparticles. <i>Applied Surface Science</i> , 2017, 405, 337-343.	6.1	138
10	Green synthesis of g-C ₃ N ₄ /CuONP/LDH composites and derived g-C ₃ N ₄ /MMO and their photocatalytic performance for phenol reduction from aqueous solutions. <i>Applied Clay Science</i> , 2017, 141, 1-12.	5.2	27
11	α -Click-access to multilayer functionalized Au surface: A terpyridine patterning example. <i>Materials Science and Engineering C</i> , 2017, 75, 1343-1350.	7.3	5
12	Synthesis, characterization, and cytotoxicity evaluation of high-magnetization multifunctional nanoclusters. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	6
13	Poly(glycidyl methacrylate)-functionalized magnetic nanoparticles as platforms for linking functionalities, bioentities and organocatalysts. <i>RSC Advances</i> , 2016, 6, 43330-43338.	3.6	5
14	Tailoring the properties of magnetite nanoparticles clusters by coating with double inorganic layers. <i>Applied Surface Science</i> , 2016, 390, 1-6.	6.1	14
15	Synthesis, structure, bioactivity and biocompatibility of melt-derived P ₂ O ₅ -CaO-B ₂ O ₃ -K ₂ O-MoO ₃ glasses. <i>Journal of Non-Crystalline Solids</i> , 2016, 439, 67-73.	3.1	19
16	Microscopic and spectroscopic investigation of an explanted opacified intraocular lens. <i>Applied Surface Science</i> , 2015, 325, 124-131.	6.1	3
17	α -Crystallographic-holes: new insights for a beneficial structural feature for photocatalytic applications. <i>Nanoscale</i> , 2015, 7, 5776-5786.	5.6	11
18	Designing chitosan-silver nanoparticles-graphene oxide nanohybrids with enhanced antibacterial activity against <i>Staphylococcus aureus</i> . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 487, 113-120.	4.7	62

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19	Mesoporous CeTiSiMCM-48 as novel photocatalyst for degradation of organic compounds. Journal of Alloys and Compounds, 2015, 648, 864-873.	5.5	22
20	Silver functionalized titania-silica xerogels: Preparation, morpho-structural and photocatalytic properties, kinetic modeling. Journal of Alloys and Compounds, 2015, 648, 890-902.	5.5	18
21	Polyethylene Glycol-Mediated Synthesis of Cubic Iron Oxide Nanoparticles with High Heating Power. Nanoscale Research Letters, 2015, 10, 391.	5.7	68
22	Synthesis and characterisation of nanostructured silica-powellite-HAP composites. Journal of Materials Science, 2015, 50, 577-586.	3.7	9
23	Photocatalytic H ₂ Evolution Using Different Commercial TiO ₂ Catalysts Deposited with Finely Size-Tailored Au Nanoparticles: Critical Dependence on Au Particle Size. Materials, 2014, 7, 7615-7633.	2.9	13
24	Molybdenum effect on the structure of SiO ₂ -CaO-P ₂ O ₅ bioactive xerogels and on their interface processes with simulated biofluids. Journal of Biomedical Materials Research - Part A, 2014, 102, 3177-3185.	4.0	15
25	TiO ₂ /WO ₃ /Au nanoarchitectures TM photocatalytic activity, TM from degradation intermediates to catalysts TM structural peculiarities TM , Part I: Aerioxide P25 based composites. Applied Catalysis B: Environmental, 2014, 147, 508-517.	20.2	37
26	Novel selenium containing boro-phosphate glasses: Preparation and structural study. Materials Science and Engineering C, 2014, 39, 61-66.	7.3	38
27	Synthesis, characterisation and in vitro evaluation of sol-gel derived SiO ₂ -P ₂ O ₅ -CaO-B ₂ O ₃ bioactive system. Ceramics International, 2014, 40, 9517-9524.	4.8	39
28	TiO ₂ /WO ₃ /Au nanoarchitectures TM photocatalytic activity TM from degradation intermediates to catalysts TM structural peculiarities TM , Part II: Aerogel based composites TM fine details by spectroscopic means. Applied Catalysis B: Environmental, 2014, 148-149, 589-600.	20.2	26
29	The influence of local structure and surface morphology on the antibacterial activity of silver-containing calcium borosilicate glasses. Journal of Non-Crystalline Solids, 2014, 404, 98-103.	3.1	34
30	Addressing the optimal silver content in bioactive glass systems in terms of BSA adsorption. Journal of Materials Chemistry B, 2014, 2, 5799-5808.	5.8	27
31	Spectroscopic characterisation and in vitro behaviour of kaolinite polyvinyl alcohol nanocomposite. Applied Clay Science, 2013, 72, 147-154.	5.2	12
32	XPS investigation of atomic environment changes on surface of B ₂ O ₃ -Bi ₂ O ₃ glasses. Journal of Non-Crystalline Solids, 2013, 379, 35-39.	3.1	59
33	<i>In vitro</i> evaluation of the effects of yttria-alumina-silica microspheres on human keratinocyte cells. Journal of Biomedical Materials Research - Part A, 2013, 101A, 472-477.	4.0	6
34	Molybdenum effect on the structure of SiO ₂ -CaO-P ₂ O ₅ bioactive xerogels and on their interface processes with simulated biofluids. Journal of Biomedical Materials Research - Part A, 2013, 102, n/a-n/a.	4.0	2
35	Valence band dependence on thermal treatment of gold doped glasses and glass ceramics. Journal of Applied Physics, 2012, 111, 034701.	2.5	5
36	X-ray Photoelectron Spectroscopic Characterization of Ag Nanoparticles Embedded Bioglasses. Journal of Physical Chemistry C, 2012, 116, 17975-17979.	3.1	8

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37	Gold nanoparticles developed in sol-gel derived apatite-bioactive glass composites. Journal of Materials Science: Materials in Medicine, 2012, 23, 1193-1201.	3.6	18
38	Doping and calcination effect on nanostructured aluminosilicates processed by sol-gel route. EPJ Applied Physics, 2011, 55, 30401.	0.7	2
39	Divergence of the Magnetic Gr ^{1/4} neisen Ratio at the Field-Induced Quantum Critical Point in YbRh_2Si_2 . Physical Review Letters, 2009, 102, 066401.	7.8	70
40	Radu et al. Reply: Physical Review Letters, 2007, 98, .	7.8	3
41	Field induced magnetic phase transition as a magnon Bose Einstein condensation. Science and Technology of Advanced Materials, 2007, 8, 406-409.	6.1	6
42	Radu et al. Reply: Physical Review Letters, 2006, 96, .	7.8	11
43	Magnetic phase transitions in the two-dimensional frustrated quantum antiferromagnet Cs_2CuCl_4 . Physical Review B, 2006, 73, .	3.2	63
44	Low-temperature properties of the heavy fermion system YbRh_2Si_2 . Physica B: Condensed Matter, 2006, 378-380, 74-75.	2.7	11
45	Tuning YbRh_2Si_2 to a non-magnetic state by La-doping. Physica B: Condensed Matter, 2005, 359-361, 26-28.	2.7	13
46	Field-Induced Suppression of the Heavy-Fermion State in YbRh_2Si_2 . Physical Review Letters, 2005, 94, 226402.	7.8	55
47	Yb-based heavy-fermion metal situated close to a quantum critical point. Physical Review B, 2005, 72, .	3.2	60
48	Bose-Einstein Condensation of Magnons in Cs_2CuCl_4 . Physical Review Letters, 2005, 95, 127202.	7.8	139
49	A compensated heat-pulse calorimeter for low temperatures. Review of Scientific Instruments, 2004, 75, 2700-2705.	1.3	42
50	Morphologies of Widmanstätten Structures and Mechanism Formation in Steels. Materials Science Forum, 0, 636-637, 550-555.	0.3	1