Maria Teodora Radu

List of Publications by Year
in descending order

50 papers	1,383 citations	331670 21 h-index	345221 36 g-index
50 all docs	50 docs citations	50 times ranked	2150 citing authors

#	Article	IF	Citations
1	Bose-Einstein Condensation of Magnons inCs2CuCl4. Physical Review Letters, 2005, 95, 127202.	7.8	139
2	X-Ray Photoelectron Spectroscopic Characterization of Iron Oxide Nanoparticles. Applied Surface Science, 2017, 405, 337-343.	6.1	138
3	Divergence of the Magnetic GrÃ¼neisen Ratio at the Field-Induced Quantum Critical Point in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>YbRh</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Si</mml:mi><mml:mn> Physical Review Letters, 2009, 102, 066401.	7.8	70
4	Polyethylene Glycol-Mediated Synthesis of Cubic Iron Oxide Nanoparticles with High Heating Power. Nanoscale Research Letters, 2015, 10, 391.	5.7	68
5	Magnetic phase transitions in the two-dimensional frustrated quantum antiferromagnetCs2CuCl4. Physical Review B, 2006, 73, .	3.2	63
6	Designing chitosanâ€“silver nanoparticlesâ€“graphene oxide nanohybrids with enhanced antibacterial activity against Staphylococcus aureus. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 487, 113-120.	4.7	62
7	Yb-based heavy-fermion metal situated close to a quantum critical point. Physical Review B, 2005, 72, .	3.2	60
8	XPS investigation of atomic environment changes on surface of B2O3â€“Bi2O3 glasses. Journal of Non-Crystalline Solids, 2013, 379, 35-39.	3.1	59
9	Field-Induced Suppression of the Heavy-Fermion State inYbRh2Si2. Physical Review Letters, 2005, 94, 226402.	7.8	55
10	A compensated heat-pulse calorimeter for low temperatures. Review of Scientific Instruments, 2004, 75, 2700-2705.	1.3	42
11	Synthesis, characterisation and in vitro evaluation of solâ€“gel derived SiO2â€“P2O5â€“CaOâ€“B2O3 bioactive system. Ceramics International, 2014, 40, 9517-9524.	4.8	39
12	Novel selenium containing boro-phosphate glasses: Preparation and structural study. Materials Science and Engineering C, 2014, 39, 61-66.	7.3	38
13	TiO2/WO3/Au nanoarchitecturesâ€™ photocatalytic activity, â€œfrom degradation intermediates to catalystsâ€™ structural peculiaritiesâ€, Part I: Aeroxide P25 based composites. Applied Catalysis B: Environmental, 2014, 147, 508-517.	20.2	37
14	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
15	Correlation between synthesis parameters and properties of magnetite clusters prepared by solvothermal polyol method. Journal of Materials Science, 2019, 54, 2853-2875.	3.7	29
16	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
17	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. Applied Clay Science, 2017, 141, 1-12.	5.2	27
18	TiO2/WO3/Au nanoarchitecturesâ€™ photocatalytic activity â€œfrom degradation intermediates to catalystsâ€™ structural peculiaritiesâ€•Part II: Aerogel based composites â€“ fine details by spectroscopic means. Applied Catalysis B: Environmental, 2014, 148-149, 589-600.	20.2	26

#	Article	IF	Citations
19	Plasmonic photocatalysts based on silver nanoparticles â€“ layered double hydroxides for efficient removal of toxic compounds using solar light. Applied Surface Science, 2018, 444, 407-413.	6.1	24
20	Effects of rare earth doping on multi-core iron oxide nanoparticles properties. Applied Surface Science, 2018, 428, 492-499.	6.1	24
21	Raman spectra tell us so much more: Raman features and saturation magnetization for efficient analysis of manganese zinc ferrite nanoparticles. Journal of Raman Spectroscopy, 2020, 51, 959-968.	2.5	24
22	Mesoporous CeTiSiMCM-48 as novel photocatalyst for degradation of organic compounds. Journal of Alloys and Compounds, 2015, 648, 864-873.	5.5	22
23	Au/reduced graphene oxide composites: eco-friendly preparation method and catalytic applications for formic acid dehydrogenation. Journal of Materials Science, 2019, 54, 6991-7004.	3.7	20
24	Synthesis, structure, bioactivity and biocompatibility of melt-derived P2O5â€CaOâ€B2O3â€K2Oâ€MoO3 glasses. Journal of Non-Crystalline Solids, 2016, 439, 67-73.	3.1	19
25	Gold nanoparticles developed in solâ€“gel derived apatiteâ€”bioactive glass composites. Journal of Materials Science: Materials in Medicine, 2012, 23, 1193-1201.	3.6	18
26	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
27	Molybdenum effect on the structure of SiO₂â€“CaOâ€“P₂O₅ bioactive xerogels and on their interface processes with simulated biofluids. Journal of Biomedical Materials Research - Part A, 2014, 102, 3177-3185.	4.0	15
28	Surface functionalization of Fe3O4@SiO2 core-shell nanoparticles with vinylimidazole-rare earth complexes: Synthesis, physico-chemical properties and protein interaction effects. Applied Surface Science, 2018, 453, 457-463.	6.1	15
29	Tailoring the properties of magnetite nanoparticles clusters by coating with double inorganic layers. Applied Surface Science, 2016, 390, 1-6.	6.1	14
30	Tuning YbRh2Si2 to a non-magnetic state by La-doping. Physica B: Condensed Matter, 2005, 359-361, 26-28.	2.7	13
31	Photocatalytic H2 Evolution Using Different Commercial TiO2 Catalysts Deposited with Finely Size-Tailored Au Nanoparticles: Critical Dependence on Au Particle Size. Materials, 2014, 7, 7615-7633.	2.9	13
32	Low-platinum catalyst based on sulfur doped graphene for methanol oxidation in alkaline media. Materials Today Energy, 2021, 19, 100588.	4.7	13
33	Spectroscopic characterisation and in vitro behaviour of kaolinite polyvinyl alcohol nanocomposite. Applied Clay Science, 2013, 72, 147-154.	5.2	12
34	Development of a novel biomaterial with an important osteoinductive capacity for hard tissue engineering. Tissue and Cell, 2018, 52, 101-107.	2.2	12
35	RaduetÂal.Reply:. Physical Review Letters, 2006, 96, .	7.8	11
36	Low-temperature properties of the heavy fermion system YbIr2Si2. Physica B: Condensed Matter, 2006, 378-380, 74-75.	2.7	11

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37	â€œCrystallographicâ€•holes: new insights for a beneficial structural feature for photocatalytic applications. Nanoscale, 2015, 7, 5776-5786.	5.6	11
38	Synthesis and characterisation of nanostructured silica-powellite-HAP composites. Journal of Materials Science, 2015, 50, 577-586.	3.7	9
39	X-ray Photoelectron Spectroscopic Characterization of Ag Nanoparticles Embedded Bioglasses. Journal of Physical Chemistry C, 2012, 116, 17975-17979.	3.1	8
40	Field induced magnetic phase transition as a magnon Bose Einstein condensation. Science and Technology of Advanced Materials, 2007, 8, 406-409.	6.1	6
41	In vitro evaluation of the effects of yttriaâ€“aluminaâ€“silica microspheres on human keratinocyte cells. Journal of Biomedical Materials Research - Part A, 2013, 101A, 472-477.	4.0	6
42	Synthesis, characterization, and cytotoxicity evaluation of high-magnetization multifunctional nanoclusters. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	6
43	Valence band dependence on thermal treatment of gold doped glasses and glass ceramics. Journal of Applied Physics, 2012, 111, 034701.	2.5	5
44	Poly(glycidyl methacrylate)-functionalized magnetic nanoparticles as platforms for linking functionalities, bioentities and organocatalysts. RSC Advances, 2016, 6, 43330-43338.	3.6	5
45	â€œClickâ€•access to multilayer functionalized Au surface: A terpyridine patterning example. Materials Science and Engineering C, 2017, 75, 1343-1350.	7.3	5
46	RaduetÂal.Reply:. Physical Review Letters, 2007, 98, .	7.8	3
47	Microscopic and spectroscopic investigation of an explanted opacified intraocular lens. Applied Surface Science, 2015, 325, 124-131.	6.1	3
48	Doping and calcination effect on nanostructured aluminosilicates processed by sol-gel route. EPJ Applied Physics, 2011, 55, 30401.	0.7	2
49	Molybdenum effect on the structure of SiO₂-CaO-P₂O₅bioactive 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
50	Morphologies of WidmanstÃtten Structures and Mechanism Formation in Steels. Materials Science Forum, 0, 636-637, 550-555.	0.3	1