

Rodica Turcu

List of Publications by Year in descending order

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121
papers

2,789
citations

318942

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123
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123
times ranked

5005
citing authors

#	ARTICLE	IF	CITATIONS
1	Responsiveness assessment of cell cultures exposed to poly(tartaric acid) and its corresponding magnetic nanostructures. <i>Journal of Molecular Structure</i> , 2022, 1248, 131459.	1.8	2
2	High performance magnetorheological fluids: very high magnetization FeCo ₃ O ₄ nanoclusters in a ferrofluid carrier. <i>Soft Matter</i> , 2022, 18, 626-639.	1.2	8
3	Ferrofluids and bio-ferrofluids: looking back and stepping forward. <i>Nanoscale</i> , 2022, 14, 4786-4886.	2.8	50
4	Analysis of Functionalized Ferromagnetic Memory Alloys from the Perspective of Developing a Medical Vascular Implant. <i>Polymers</i> , 2022, 14, 1397.	2.0	5
5	Magnetic Nanoclusters Increase the Sensitivity of Lateral Flow Immunoassays for Protein Detection: Application to Pneumolysin as a Biomarker for <i>Streptococcus pneumoniae</i> . <i>Nanomaterials</i> , 2022, 12, 2044.	1.9	6
6	Study of Metal Ion Removal from Aqueous Systems Using Magnetic Nanostructures Based on Functionalized Poly(Benzofuran-co-Arylacetic Acid). <i>Analytical Letters</i> , 2021, 54, 184-203.	1.0	2
7	Characterization of the Nuclear Magnetic Resonance Relaxivity of Gadolinium Functionalized Magnetic Nanoparticles. <i>Analytical Letters</i> , 2021, 54, 124-139.	1.0	3
8	Fluid targeted delivery of functionalized magnetoresponse nanocomposite particles to a ferromagnetic stent. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 519, 167489.	1.0	10
9	Effective Removal of Crystal Violet Dye Using Neoteric Magnetic Nanostructures Based on Functionalized Poly(Benzofuran-co-Arylacetic Acid): Investigation of the Adsorption Behaviour and Reusability. <i>Nanomaterials</i> , 2021, 11, 679.	1.9	21
10	High-Performance Functionalized Magnetic Nanoparticles with Tailored Sizes and Shapes for Localized Hyperthermia Applications. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11132-11146.	1.5	16
11	Synthesis, characterization and nonlinear optical response of polyelectrolyte-stabilized copper hydroxide and copper oxide colloidal nanohybrids. <i>Optical Materials</i> , 2021, 119, 111329.	1.7	3
12	Aminopropylimidazole as an Advantageous Coating in the Synthesis of Functionalized Magnetite Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 3276.	1.9	3
13	Evaluation of physico-chemical properties and biocompatibility of new surface functionalized Fe ₃ O ₄ clusters of nanoparticles. <i>Applied Surface Science</i> , 2020, 501, 144267.	3.1	21
14	Magnetic Nanoparticle Systems for Nanomedicine—A Materials Science Perspective. <i>Magnetochemistry</i> , 2020, 6, 2.	1.0	79
15	Large scale aggregation in magnetic colloids induced by high frequency magnetic fields. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 500, 166348.	1.0	9
16	Preclinical Evaluation of NHS-Activated Gold Nanoparticles Functionalized with Bombesin or Neutrosin-Like Peptides for Targeting Colon and Prostate Tumours. <i>Molecules</i> , 2020, 25, 3363.	1.7	8
17	Dental Adhesive Interfaces Reinforced with Magnetic Nanoparticles: Evaluation and Modeling with Micro-CT versus Optical Microscopy. <i>Materials</i> , 2020, 13, 3908.	1.3	15
18	From Single-Core Nanoparticles in Ferrofluids to Multi-Core Magnetic Nanocomposites: Assembly Strategies, Structure, and Magnetic Behavior. <i>Nanomaterials</i> , 2020, 10, 2178.	1.9	21

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19	Engineered magnetoactive collagen hydrogels with tunable and predictable mechanical response. <i>Materials Science and Engineering C</i> , 2020, 114, 111089.	3.8	9
20	Magnetic hydrogel composites based on cross-linked poly (acrylic acid) used as a recyclable adsorbent system for nitrates. <i>Water and Environment Journal</i> , 2020, 34, 916-928.	1.0	3
21	White Magnetic Paper with Zero Remanence Based on Electrospun Cellulose Microfibers Doped with Iron Oxide Nanoparticles. <i>Nanomaterials</i> , 2020, 10, 517.	1.9	9
22	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.	1.2	24
23	Poly(1-vinylimidazole) grafted on magnetic nanoparticles - attainment of novel nanostructures. <i>Revue Roumaine De Chimie</i> , 2020, 65, 611-616.	0.4	3
24	From high colloidal stability ferrofluids to magnetorheological fluids: tuning the flow behavior by magnetite nanoclusters. <i>Smart Materials and Structures</i> , 2019, 28, 115014.	1.8	15
25	Chondroitin-Sulfate-A-Coated Magnetite Nanoparticles: Synthesis, Characterization and Testing to Predict Their Colloidal Behavior in Biological Milieu. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4096.	1.8	18
26	Enzymatic synthesis of short-chain flavor esters from natural sources using tailored magnetic biocatalysts. <i>Food Chemistry</i> , 2019, 296, 1-8.	4.2	18
27	Correlation between synthesis parameters and properties of magnetite clusters prepared by solvothermal polyol method. <i>Journal of Materials Science</i> , 2019, 54, 2853-2875.	1.7	29
28	Physicochemical Properties of a New Magnetic Nanostructure Based on Poly(Benzofurane-co-Arylacetic Acid). <i>Analytical Letters</i> , 2019, 52, 27-36.	1.0	1
29	New type of electrode material based on magnetic nanoparticles with high potential applicability in electrochemical sensors for nitrite detection. <i>Sensors and Actuators A: Physical</i> , 2018, 276, 43-51.	2.0	11
30	Effects of rare earth doping on multi-core iron oxide nanoparticles properties. <i>Applied Surface Science</i> , 2018, 428, 492-499.	3.1	24
31	Multifunctional PEG-carboxylate copolymer coated superparamagnetic iron oxide nanoparticles for biomedical application. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 451, 710-720.	1.0	55
32	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.	3.1	15
33	High concentration aqueous magnetic fluids: structure, colloidal stability, magnetic and flow properties. <i>Soft Matter</i> , 2018, 14, 6648-6666.	1.2	40
34	X-Ray Photoelectron Spectroscopic Characterization of Iron Oxide Nanoparticles. <i>Applied Surface Science</i> , 2017, 405, 337-343.	3.1	138
35	Photopyroelectric Characterization of Magnetic Nanofluids. Influence of Type and Size of Nanoparticles on the Thermal Parameters. <i>International Journal of Thermophysics</i> , 2017, 38, 1.	1.0	2
36	Click-access to multilayer functionalized Au surface: A terpyridine patterning example. <i>Materials Science and Engineering C</i> , 2017, 75, 1343-1350.	3.8	5

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37	Synthesis, characterization, and cytotoxicity evaluation of high-magnetization multifunctional nanoclusters. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	6
38	The study of nitrogen inclusion in carbon nanotubes obtained by catalytic laser-induced chemical vapour deposition (C-LCVD). <i>Applied Surface Science</i> , 2017, 425, 440-447.	3.1	10
39	The effect of polycarboxylate shell of magnetite nanoparticles on protein corona formation in blood plasma. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 427, 95-99.	1.0	5
40	Synthesis and characterization of size-controlled magnetic clusters functionalized with polymer layer for wastewater depollution. <i>Materials Chemistry and Physics</i> , 2017, 185, 91-97.	2.0	13
41	Optimization of multicore-shell Fe ₃ O ₄ -SiO ₂ magnetic nanocomposites synthesis and retention in cellulose pulp. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	0
42	Chapter 4. Iron-oxide Nanoparticle-based Contrast Agents. <i>New Developments in NMR</i> , 2017, , 318-447.	0.1	4
43	Refinement of Magnetite Nanoparticles by Coating with Organic Stabilizers. <i>Nanomaterials</i> , 2016, 6, 228.	1.9	38
44	Poly(glycidyl methacrylate)-functionalized magnetic nanoparticles as platforms for linking functionalities, bioentities and organocatalysts. <i>RSC Advances</i> , 2016, 6, 43330-43338.	1.7	5
45	Tailoring the properties of magnetite nanoparticles clusters by coating with double inorganic layers. <i>Applied Surface Science</i> , 2016, 390, 1-6.	3.1	14
46	Electrostatic vs steric stabilization of Fe ₃ O ₄ and Co _{0.5} Fe _{2.5} O ₄ nanoparticles. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	2
47	Functionalization of polydopamine coated magnetic nanoparticles with biological entities. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	0
48	Hybride magnetic nanostructure based on amino acids functionalized polypyrrole. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	2
49	Developing novel strategies for the functionalization of core-shell magnetic nanoparticles with folic acid derivatives. <i>Materials Chemistry and Physics</i> , 2015, 162, 131-139.	2.0	8
50	Polydopamine - A Versatile Coating for Surface-Initiated Ring-Opening Polymerization of Lactide to Polylactide. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 211-217.	1.1	22
51	Magnetic microgels, a promising candidate for enhanced magnetic adsorbent particles in bioseparation: synthesis, physicochemical characterization, and separation performance. <i>Soft Matter</i> , 2015, 11, 1008-1018.	1.2	46
52	Adsorption mechanisms of l-Glutathione on Au and controlled nano-patterning through Dip Pen Nanolithography. <i>Materials Science and Engineering C</i> , 2015, 57, 171-180.	3.8	23
53	Melanin-like polydopa amides - synthesis and application in functionalization of magnetic nanoparticles. <i>Polymer Chemistry</i> , 2015, 6, 2139-2149.	1.9	23
54	Alternative Calorimetry Based on the Photothermoelectric (PTE) Effect: Application to Magnetic Nanofluids. <i>International Journal of Thermophysics</i> , 2015, 36, 2441-2451.	1.0	6

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55	Graphene based nanomaterials as chemical sensors for hydrogen peroxide – A comparison study of their intrinsic peroxidase catalytic behavior. <i>Sensors and Actuators B: Chemical</i> , 2015, 213, 474-483.	4.0	93
56	Diazonium salt-mediated synthesis of new amino, hydroxy, propargyl, and maleinimido-containing superparamagnetic Fe@C nanoparticles as platforms for linking bio-entities or organocatalytic moieties. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	8
57	Magnetic iron oxide nanoparticles: Recent trends in design and synthesis of magnetoresponsive nanosystems. <i>Biochemical and Biophysical Research Communications</i> , 2015, 468, 442-453.	1.0	127
58	Magnetic microgels for drug targeting applications: Physical–chemical properties and cytotoxicity evaluation. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 380, 307-314.	1.0	25
59	Mechanism of in Situ Surface Polymerization of Gallic Acid in an Environmental-Inspired Preparation of Carboxylated Core–Shell Magnetite Nanoparticles. <i>Langmuir</i> , 2014, 30, 15451-15461.	1.6	62
60	Photopyroelectric Calorimetry of Fe_3O_4 Magnetic Nanofluids: Effect of Type of Surfactant and Magnetic Field. <i>International Journal of Thermophysics</i> , 2014, 35, 2032-2043.	1.0	9
61	Diazo transfer at polydopamine – a new way to functionalization. <i>Polymer Chemistry</i> , 2014, 5, 6593-6599.	1.9	22
62	Magnetic Microgels: Synthesis and Characterization. <i>Lecture Notes in Bioengineering</i> , 2014, , 57-76.	0.3	3
63	Magnetite–polylactic acid nanoparticles by surface initiated organocatalysis ring opening polymerization. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	10
64	Structure of Polydopamine: A Never-Ending Story?. <i>Langmuir</i> , 2013, 29, 10539-10548.	1.6	834
65	Powder structure of magnetic nanoparticles with a substituted pyrrole copolymer shells according to small-angle neutron scattering. <i>Journal of Surface Investigation</i> , 2013, 7, 5-9.	0.1	1
66	New versatile polydopamine coated functionalized magnetic nanoparticles. <i>Materials Chemistry and Physics</i> , 2013, 138, 295-302.	2.0	57
67	Magnetically induced phase condensation in an aqueous dispersion of magnetic nanogels. <i>Soft Matter</i> , 2013, 9, 3098.	1.2	33
68	Magnetite nanoparticles coated with alkyne-containing polyacrylates for click chemistry. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	9
69	Synthesis and characterization of new magnetic polydopamine composites. <i>AIP Conference Proceedings</i> , 2013, , .	0.3	1
70	A routine synthesis of magnetite applied in ionic liquids. , 2013, , .		1
71	Stimuli responsive magnetic nanogels for biomedical application. <i>AIP Conference Proceedings</i> , 2013, , .	0.3	6
72	Introduction of biotin or folic acid into polypyrrole magnetite core-shell nanoparticles. , 2013, , .		1

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73	Characterizations of drug carrying magnetic nanoparticles for tumor therapy: biological outcome and first immunological aspects. <i>Magnetohydrodynamics</i> , 2013, 49, 552-559.	0.5	2
74	Synthesis of hybrid polymethacrylate–noble metal (M = Au, Pd) nanoparticles for the growth of metal-oxide semiconductor nanowires. <i>RSC Advances</i> , 2012, 2, 4370.	1.7	1
75	Well-defined fluoro- and carbazole-containing diblock copolymers: synthesis, characterization and immobilization onto Au-coated silicon surfaces. <i>RSC Advances</i> , 2012, 2, 8741.	1.7	2
76	Conducting Polypyrrole Shell as a Promising Covering for Magnetic Nanoparticles. , 2012, , .		1
77	Magnetite–poly(lactic acid) core–shell nanoparticles by ring–opening polymerization under microwave irradiation. <i>Journal of Polymer Science Part A</i> , 2012, 50, 1485-1490.	2.5	20
78	A new access to polypyrrole–based functionalized magnetic core–shell nanoparticles. <i>Journal of Polymer Science Part A</i> , 2012, 50, 3986-3995.	2.5	9
79	One-step ligand exchange reaction as an efficient way for functionalization of magnetic nanoparticles. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	2
80	Comparative study of core–shell iron/iron oxide gold covered magnetic nanoparticles obtained in different conditions. <i>Journal of Nanoparticle Research</i> , 2011, 13, 6181-6192.	0.8	23
81	Synthesis and characterization of water–dispersible, superparamagnetic single–wall carbon nanotubes decorated with iron oxide nanoparticles and well–defined chelating diblock copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 1389-1396.	2.4	2
82	Clustering in Water Based Magnetic Nanofluids: Investigations by Light Scattering Methods. , 2010, , .		3
83	Synthesis and Characterization of Magnetically Controllable Nanostructures Using Different Polymers. , 2010, , .		2
84	A Versatile Method of Tethering Biomolecules to Pyrrole Precursors for Functionalized Magnetic Polypyrrole Core-Shell Nanoparticles. <i>Synthesis</i> , 2010, 2010, 3021-3028.	1.2	1
85	Synthesis and characterization of the core–shell Au covered LSMO manganite magnetic nanoparticles. <i>Synthetic Metals</i> , 2010, 160, 1692-1698.	2.1	17
86	Structure and in Vitro Biological Testing of Water-Based Ferrofluids Stabilized by Monocarboxylic Acids. <i>Langmuir</i> , 2010, 26, 8503-8509.	1.6	35
87	Novel magnetic core-shell polypyrrole-Fe ₃ O ₄ nanoparticles functionalized by peptides or albumin. <i>Arkivoc</i> , 2010, 2010, 185-198.	0.3	11
88	Synthesis and characterization of LSMO nanoparticles covered with Au having a core-shell structure. <i>Journal of Physics: Conference Series</i> , 2009, 182, 012071.	0.3	3
89	Synthesis, characterization and drug delivery application of the temperature responsive pNIPAA hydrogel. <i>Journal of Physics: Conference Series</i> , 2009, 182, 012060.	0.3	6
90	Influence of sodium intake on Amphotericin B-induced nephrotoxicity among extremely premature infants. <i>Pediatric Nephrology</i> , 2009, 24, 497-505.	0.9	28

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91	Investigation of nanostructured Fe ₃ O ₄ polypyrrole core-shell composites by X-ray absorption spectroscopy and X-ray diffraction using synchrotron radiation. <i>Journal of Nanoparticle Research</i> , 2009, 11, 1429-1439.	0.8	12
92	Microwave-assisted graft polymerization of ϵ -caprolactone onto magnetite. <i>Journal of Polymer Science Part A</i> , 2009, 47, 5397-5404.	2.5	29
93	Smart composites based on magnetic nanoparticles and responsive polymers. <i>Journal of Physics: Conference Series</i> , 2009, 182, 012081.	0.3	4
94	Surface initiated ring-opening polymerization of lactones on iron oxide nanoparticles. <i>Journal of Physics: Conference Series</i> , 2009, 182, 012070.	0.3	6
95	Synthesis of new pyrrole-containing biomolecules as building blocks for functionalized polypyrroles in nanobiotechnology. <i>Journal of Physics: Conference Series</i> , 2009, 182, 012067.	0.3	0
96	High accuracy photopyroelectric investigation of dynamic thermal parameters of Fe ₃ O ₄ and CoFe ₂ O ₄ magnetic nanofluids. <i>Journal of Nanoparticle Research</i> , 2008, 10, 1329-1336.	0.8	20
97	Magnetic characterization of some nanometric iron oxides. <i>Hyperfine Interactions</i> , 2008, 183, 205-214.	0.2	7
98	Polypyrrole coated magnetite nanoparticles from water based nanofluids. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 245002.	1.3	51
99	New shells for magnetic nanoparticles based on polypyrrole functionalized with α -amino acids. <i>Arkivoc</i> , 2008, 2008, 307-320.	0.3	5
100	Structure, morphology and magnetic properties of Fe@Au core-shell nanoparticles. <i>Surface Science</i> , 2007, 601, 4352-4357.	0.8	34
101	A Model for the Charge Transport in La _{0.67} Ca _{0.33} MnO ₃ at Temperatures above T _p . <i>Molecular Crystals and Liquid Crystals</i> , 2004, 417, 57-65.	0.4	0
102	Structural and Magnetic Properties of Polypyrrole Nanocomposites. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 417, 235-243.	0.4	6
103	Optical and paramagnetic properties of the soluble polypyrrole. <i>Synthetic Metals</i> , 2001, 119, 287-288.	2.1	10
104	Studies of the intermolecular interactions in polypyrrole and conjugated composites based on polypyrrole. <i>Advanced Materials for Optics and Electronics</i> , 1999, 9, 157-165.	0.6	8
105	Reflection and absorption studies on polypyrrole films electrochemically prepared with different electrolyte types. <i>Synthetic Metals</i> , 1999, 100, 217-221.	2.1	2
106	FTIR reflectance studies of electrochemically prepared polypyrrole films. <i>Applied Physics A: Materials Science and Processing</i> , 1998, 67, 283-287.	1.1	11
107	Correlation between the electrochemical synthesis conditions and the optical properties of polypyrrole. <i>Synthetic Metals</i> , 1997, 84, 825-826.	2.1	3
108	Structural and optical studies of dielectric and metallic organic films. <i>Synthetic Metals</i> , 1997, 84, 955-956.	2.1	1

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109	Stability study of conducting polypyrrole films and polyvinylchloride-polypyrrole composites doped with different counterions. <i>Materials Chemistry and Physics</i> , 1997, 49, 174-178.	2.0	25
110	Electrochemical and X-ray diffraction studies on polypyrrole films. <i>Materials Chemistry and Physics</i> , 1996, 46, 55-60.	2.0	10
111	Optical studies on free-standing polypyrrole films by the photopyroelectric method. <i>Applied Physics B: Lasers and Optics</i> , 1996, 62, 499-502.	1.1	2
112	The effect of initial conductivity and doping anions on gas sensitivity of conducting polypyrrole films to NH ₃ . <i>Sensors and Actuators B: Chemical</i> , 1996, 37, 119-122.	4.0	58
113	Electrochemical and Optical Studies of Metallic Ion Insertion in Polypyrrole Films. <i>Materials Science Forum</i> , 1995, 191, 241-246.	0.3	11
114	The impulse photopyroelectric method for thermal characterization of electrically conducting polymers. <i>Applied Physics A: Materials Science and Processing</i> , 1995, 60, 455-458.	1.1	5
115	The impulse photopyroelectric method for thermal characterization of electrically conducting polymers. <i>Applied Physics A: Materials Science and Processing</i> , 1995, 60, 455-458.	1.1	0
116	Effects of thermal annealing on the electrical conductivity of polypyrrole films. <i>Synthetic Metals</i> , 1993, 53, 325-332.	2.1	22
117	The influence of the film history on some electrophysical properties of VE, CAD, and COD PbSe films. <i>Physica Status Solidi A</i> , 1988, 108, 233-240.	1.7	2
118	Size effects in polycrystalline PbSe films obtained by chemical deposition. <i>Physica Status Solidi A</i> , 1988, 108, 637-641.	1.7	7
119	Effects of thermal annealing in air on VE, COD and CAD PbSe films. <i>Physica Status Solidi A</i> , 1987, 100, 149-155.	1.7	13
120	The Dynamic Behavior of the Electrical Conductivity of CAD-PbSe Films. <i>Physica Status Solidi A</i> , 1986, 96, 337-343.	1.7	8
121	New magnetic polymeric hybrid composite electrode material for amperometric nitrite sensor. <i>International Journal of Environmental Analytical Chemistry</i> , 0, , 1-18.	1.8	1