

Rodica Turcu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5437450/publications.pdf>

Version: 2024-02-01

121
papers

2,789
citations

279778

23
h-index

197805

49
g-index

123
all docs

123
docs citations

123
times ranked

4474
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of Polydopamine: A Never-Ending Story?. Langmuir, 2013, 29, 10539-10548.	3.5	834
2	X-Ray Photoelectron Spectroscopic Characterization of Iron Oxide Nanoparticles. Applied Surface Science, 2017, 405, 337-343.	6.1	138
3	Magnetic iron oxide nanoparticles: Recent trends in design and synthesis of magnetoresponse nanosystems. Biochemical and Biophysical Research Communications, 2015, 468, 442-453.	2.1	127
4	Graphene based nanomaterials as chemical sensors for hydrogen peroxide – A comparison study of their intrinsic peroxidase catalytic behavior. Sensors and Actuators B: Chemical, 2015, 213, 474-483.	7.8	93
5	Magnetic Nanoparticle Systems for Nanomedicine – A Materials Science Perspective. Magnetochemistry, 2020, 6, 2.	2.4	79
6	Mechanism of in Situ Surface Polymerization of Gallic Acid in an Environmental-Inspired Preparation of Carboxylated Core-Shell Magnetite Nanoparticles. Langmuir, 2014, 30, 15451-15461.	3.5	62
7	The effect of initial conductivity and doping anions on gas sensitivity of conducting polypyrrole films to NH ₃ . Sensors and Actuators B: Chemical, 1996, 37, 119-122.	7.8	58
8	New versatile polydopamine coated functionalized magnetic nanoparticles. Materials Chemistry and Physics, 2013, 138, 295-302.	4.0	57
9	Multifunctional PEG-carboxylate copolymer coated superparamagnetic iron oxide nanoparticles for biomedical application. Journal of Magnetism and Magnetic Materials, 2018, 451, 710-720.	2.3	55
10	Polypyrrole coated magnetite nanoparticles from water based nanofluids. Journal Physics D: Applied Physics, 2008, 41, 245002.	2.8	51
11	Ferrofluids and bio-ferrofluids: looking back and stepping forward. Nanoscale, 2022, 14, 4786-4886.	5.6	50
12	Magnetic microgels, a promising candidate for enhanced magnetic adsorbent particles in bioseparation: synthesis, physicochemical characterization, and separation performance. Soft Matter, 2015, 11, 1008-1018.	2.7	46
13	High concentration aqueous magnetic fluids: structure, colloidal stability, magnetic and flow properties. Soft Matter, 2018, 14, 6648-6666.	2.7	40
14	Refinement of Magnetite Nanoparticles by Coating with Organic Stabilizers. Nanomaterials, 2016, 6, 228.	4.1	38
15	Structure and in Vitro Biological Testing of Water-Based Ferrofluids Stabilized by Monocarboxylic Acids. Langmuir, 2010, 26, 8503-8509.	3.5	35
16	Structure, morphology and magnetic properties of Fe-Au core-shell nanoparticles. Surface Science, 2007, 601, 4352-4357.	1.9	34
17	Magnetically induced phase condensation in an aqueous dispersion of magnetic nanogels. Soft Matter, 2013, 9, 3098.	2.7	33
18	Microwave-assisted graft polymerization of ϵ -caprolactone onto magnetite. Journal of Polymer Science Part A, 2009, 47, 5397-5404.	2.3	29

#	ARTICLE	IF	CITATIONS
19	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
20	Influence of sodium intake on Amphotericin B-induced nephrotoxicity among extremely premature infants. <i>Pediatric Nephrology</i> , 2009, 24, 497-505.	1.7	28
21	Stability study of conducting polypyrrole films and polyvinylchloride-polypyrrole composites doped with different counterions. <i>Materials Chemistry and Physics</i> , 1997, 49, 174-178.	4.0	25
22	Magnetic microgels for drug targeting applications: Physical-chemical properties and cytotoxicity evaluation. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 380, 307-314.	2.3	25
23	Effects of rare earth doping on multi-core iron oxide nanoparticles properties. <i>Applied Surface Science</i> , 2018, 428, 492-499.	6.1	24
24	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
25	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.	1.9	23
26	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.	7.3	23
27	Melanin-like polydopa amides synthesis and application in functionalization of magnetic nanoparticles. <i>Polymer Chemistry</i> , 2015, 6, 2139-2149.	3.9	23
28	Effects of thermal annealing on the electrical conductivity of polypyrrole films. <i>Synthetic Metals</i> , 1993, 53, 325-332.	3.9	22
29	Diazo transfer at polydopamine a new way to functionalization. <i>Polymer Chemistry</i> , 2014, 5, 6593-6599.	3.9	22
30	Polydopamine A Versatile Coating for Surface-Initiated Ring-Opening Polymerization of Lactide to Polylactide. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 211-217.	2.2	22
31	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.	6.1	21
32	From Single-Core Nanoparticles in Ferrofluids to Multi-Core Magnetic Nanocomposites: Assembly Strategies, Structure, and Magnetic Behavior. <i>Nanomaterials</i> , 2020, 10, 2178.	4.1	21
33	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.	4.1	21
34	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.	1.9	20
35	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.	2.3	20
36	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.	4.1	18

#	ARTICLE	IF	CITATIONS
37	Enzymatic synthesis of short-chain flavor esters from natural sources using tailored magnetic biocatalysts. <i>Food Chemistry</i> , 2019, 296, 1-8.	8.2	18
38	Synthesis and characterization of the core-shell Au covered LSMO manganite magnetic nanoparticles. <i>Synthetic Metals</i> , 2010, 160, 1692-1698.	3.9	17
39	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.	3.1	16
40	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
41	From high colloidal stability ferrofluids to magnetorheological fluids: tuning the flow behavior by magnetite nanoclusters. <i>Smart Materials and Structures</i> , 2019, 28, 115014.	3.5	15
42	Dental Adhesive Interfaces Reinforced with Magnetic Nanoparticles: Evaluation and Modeling with Micro-CT versus Optical Microscopy. <i>Materials</i> , 2020, 13, 3908.	2.9	15
43	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
44	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
45	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.	4.0	13
46	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.	1.9	12
47	Electrochemical and Optical Studies of Metallic Ion Insertion in Polypyrrole Films. <i>Materials Science Forum</i> , 1995, 191, 241-246.	0.3	11
48	FTIR reflectance studies of electrochemically prepared polypyrrole films. <i>Applied Physics A: Materials Science and Processing</i> , 1998, 67, 283-287.	2.3	11
49	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.	4.1	11
50	Novel magnetic core-shell polypyrrole-Fe ₃ O ₄ nanoparticles functionalized by peptides or albumin. <i>Arkivoc</i> , 2010, 2010, 185-198.	0.5	11
51	Electrochemical and X-ray diffraction studies on polypyrrole films. <i>Materials Chemistry and Physics</i> , 1996, 46, 55-60.	4.0	10
52	Optical and paramagnetic properties of the soluble polypyrrole. <i>Synthetic Metals</i> , 2001, 119, 287-288.	3.9	10
53	Magnetite-poly(lactic acid) nanoparticles by surface initiated organocatalysis ring opening polymerization. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	10
54	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.	6.1	10

#	ARTICLE	IF	CITATIONS
55	Fluid targeted delivery of functionalized magnetoresponse nanoparticles to a ferromagnetic stent. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 519, 167489.	2.3	10
56	A new access to polypyrrole-based functionalized magnetic core-shell nanoparticles. <i>Journal of Polymer Science Part A</i> , 2012, 50, 3986-3995.	2.3	9
57	Magnetite nanoparticles coated with alkyne-containing polyacrylates for click chemistry. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	9
58	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.	2.1	9
59	Large scale aggregation in magnetic colloids induced by high frequency magnetic fields. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 500, 166348.	2.3	9
60	Engineered magnetoactive collagen hydrogels with tunable and predictable mechanical response. <i>Materials Science and Engineering C</i> , 2020, 114, 111089.	7.3	9
61	White Magnetic Paper with Zero Remanence Based on Electrospun Cellulose Microfibers Doped with Iron Oxide Nanoparticles. <i>Nanomaterials</i> , 2020, 10, 517.	4.1	9
62	The Dynamic Behavior of the Electrical Conductivity of CAD-PbSe Films. <i>Physica Status Solidi A</i> , 1986, 96, 337-343.	1.7	8
63	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.	0.4	8
64	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.	4.0	8
65	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.	1.9	8
66	Preclinical Evaluation of NHS-Activated Gold Nanoparticles Functionalized with Bombesin or Neuropeptide Y-Like Peptides for Targeting Colon and Prostate Tumours. <i>Molecules</i> , 2020, 25, 3363.	3.8	8
67	High performance magnetorheological fluids: very high magnetization FeCo_3O_4 nanoclusters in a ferrofluid carrier. <i>Soft Matter</i> , 2022, 18, 626-639.	2.7	8
68	Size effects in polycrystalline PbSe films obtained by chemical deposition. <i>Physica Status Solidi A</i> , 1988, 108, 637-641.	1.7	7
69	Magnetic characterization of some nanometric iron oxides. <i>Hyperfine Interactions</i> , 2008, 183, 205-214.	0.5	7
70	Structural and Magnetic Properties of Polypyrrole Nanocomposites. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 417, 235-243.	0.9	6
71	Synthesis, characterization and drug delivery application of the temperature responsive pNIPAA hydrogel. <i>Journal of Physics: Conference Series</i> , 2009, 182, 012060.	0.4	6
72	Surface initiated ring-opening polymerization of lactones on iron oxide nanoparticles. <i>Journal of Physics: Conference Series</i> , 2009, 182, 012070.	0.4	6

#	ARTICLE	IF	CITATIONS
73	Stimuli responsive magnetic nanogels for biomedical application. AIP Conference Proceedings, 2013, , .	0.4	6
74	Alternative Calorimetry Based on the Photothermoelectric (PTE) Effect: Application to Magnetic Nanofluids. International Journal of Thermophysics, 2015, 36, 2441-2451.	2.1	6
75	Synthesis, characterization, and cytotoxicity evaluation of high-magnetization multifunctional nanoclusters. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	6
76	Magnetic Nanoclusters Increase the Sensitivity of Lateral Flow Immunoassays for Protein Detection: Application to Pneumolysin as a Biomarker for Streptococcus pneumoniae. Nanomaterials, 2022, 12, 2044.	4.1	6
77	The impulse photopyroelectric method for thermal characterization of electrically conducting polymers. Applied Physics A: Materials Science and Processing, 1995, 60, 455-458.	2.3	5
78	Poly(glycidyl methacrylate)-functionalized magnetic nanoparticles as platforms for linking functionalities, bioentities and organocatalysts. RSC Advances, 2016, 6, 43330-43338.	3.6	5
79	â€œClickâ€ access to multilayer functionalized Au surface: A terpyridine patterning example. Materials Science and Engineering C, 2017, 75, 1343-1350.	7.3	5
80	The effect of polycarboxylate shell of magnetite nanoparticles on protein corona formation in blood plasma. Journal of Magnetism and Magnetic Materials, 2017, 427, 95-99.	2.3	5
81	New shells for magnetic nanoparticles based on polypyrrole functionalized with α -amino acids. Arkivoc, 2008, 2008, 307-320.	0.5	5
82	Analysis of Functionalized Ferromagnetic Memory Alloys from the Perspective of Developing a Medical Vascular Implant. Polymers, 2022, 14, 1397.	4.5	5
83	Smart composites based on magnetic nanoparticles and responsive polymers. Journal of Physics: Conference Series, 2009, 182, 012081.	0.4	4
84	Chapter 4. Iron-oxide Nanoparticle-based Contrast Agents. New Developments in NMR, 2017, , 318-447.	0.1	4
85	Correlation between the electrochemical synthesis conditions and the optical properties of polypyrrole. Synthetic Metals, 1997, 84, 825-826.	3.9	3
86	Synthesis and characterization of LSMO nanoparticles covered with Au having a core-shell structure. Journal of Physics: Conference Series, 2009, 182, 012071.	0.4	3
87	Clustering in Water Based Magnetic Nanofluids: Investigations by Light Scattering Methods. , 2010, , .		3
88	Magnetic hydrogel composites based on crossâ€linked poly (acrylic acid) used as a recyclable adsorbent system for nitrates. Water and Environment Journal, 2020, 34, 916-928.	2.2	3
89	Characterization of the Nuclear Magnetic Resonance Relaxivity of Gadolinium Functionalized Magnetic Nanoparticles. Analytical Letters, 2021, 54, 124-139.	1.8	3
90	Synthesis, characterization and nonlinear optical response of polyelectrolyte-stabilized copper hydroxide and copper oxide colloidal nanohybrids. Optical Materials, 2021, 119, 111329.	3.6	3

#	ARTICLE	IF	CITATIONS
91	Magnetic Microgels: Synthesis and Characterization. Lecture Notes in Bioengineering, 2014, , 57-76.	0.4	3
92	Poly(1-vinylimidazole) grafted on magnetic nanoparticles - attainment of novel nanostructures. Revue Roumaine De Chimie, 2020, 65, 611-616.	0.2	3
93	Aminopropylimidazole as an Advantageous Coating in the Synthesis of Functionalized Magnetite Nanoparticles. Nanomaterials, 2021, 11, 3276.	4.1	3
94	The influence of the film history on some electrophysical properties of VE, CAD, and COD PbSe films. Physica Status Solidi A, 1988, 108, 233-240.	1.7	2
95	Optical studies on free-standing polypyrrole films by the photopyroelectric method. Applied Physics B: Lasers and Optics, 1996, 62, 499-502.	2.2	2
96	Reflection and absorption studies on polypyrrole films electrochemically prepared with different electrolyte types. Synthetic Metals, 1999, 100, 217-221.	3.9	2
97	Synthesis and Characterization of Magnetically Controllable Nanostructures Using Different Polymers. , 2010, , .		2
98	Synthesis and characterization of water-dispersible, superparamagnetic single-wall carbon nanotubes decorated with iron oxide nanoparticles and well-defined chelating diblock copolymers. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 1389-1396.	2.1	2
99	Well-defined fluoro- and carbazole-containing diblock copolymers: synthesis, characterization and immobilization onto Au-coated silicon surfaces. RSC Advances, 2012, 2, 8741.	3.6	2
100	One-step ligand exchange reaction as an efficient way for functionalization of magnetic nanoparticles. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	2
101	Electrostatic vs steric stabilization of Fe ₃ O ₄ and Co _{0.5} Fe _{2.5} O ₄ nanoparticles. AIP Conference Proceedings, 2015, , .	0.4	2
102	Hybride magnetic nanostructure based on amino acids functionalized polypyrrole. AIP Conference Proceedings, 2015, , .	0.4	2
103	Photopyroelectric Characterization of Magnetic Nanofluids. Influence of Type and Size of Nanoparticles on the Thermal Parameters. International Journal of Thermophysics, 2017, 38, 1.	2.1	2
104	Study of Metal Ion Removal from Aqueous Systems Using Magnetic Nanostructures Based on Functionalized Poly(Benzofuran- <i>co</i> -Arylacetic Acid). Analytical Letters, 2021, 54, 184-203.	1.8	2
105	Responsiveness assessment of cell cultures exposed to poly(tartaric acid) and its corresponding magnetic nanostructures. Journal of Molecular Structure, 2022, 1248, 131459.	3.6	2
106	Characterizations of drug carrying magnetic nanoparticles for tumor therapy: biological outcome and first immunological aspects. Magneto hydrodynamics, 2013, 49, 552-559.	0.3	2
107	Structural and optical studies of dielectric and metallic organic films. Synthetic Metals, 1997, 84, 955-956.	3.9	1
108	A Versatile Method of Tethering Biomolecules to Pyrrole Precursors for Functionalized Magnetic Polypyrrole Core-Shell Nanoparticles. Synthesis, 2010, 2010, 3021-3028.	2.3	1

#	ARTICLE	IF	CITATIONS
109	Synthesis of hybrid polymethacrylate–noble metal (M = Au, Pd) nanoparticles for the growth of metal-oxide semiconductor nanowires. RSC Advances, 2012, 2, 4370.	3.6	1
110	Conducting Polypyrrole Shell as a Promising Covering for Magnetic Nanoparticles. , 2012, , .		1
111	Powder structure of magnetic nanoparticles with a substituted pyrrole copolymer shells according to small-angle neutron scattering. Journal of Surface Investigation, 2013, 7, 5-9.	0.5	1
112	Synthesis and characterization of new magnetic polydopamine composites. AIP Conference Proceedings, 2013, , .	0.4	1
113	A routine synthesis of magnetite applied in ionic liquids. , 2013, , .		1
114	Introduction of biotin or folic acid into polypyrrole magnetite core-shell nanoparticles. , 2013, , .		1
115	Physicochemical Properties of a New Magnetic Nanostructure Based on Poly(Benzofurane-co-Arylacetic Acid). Analytical Letters, 2019, 52, 27-36.	1.8	1
116	New magnetic polymeric hybrid composite electrode material for amperometric nitrite sensor. International Journal of Environmental Analytical Chemistry, 0, , 1-18.	3.3	1
117	A Model for the Charge Transport in La _{0.67} Ca _{0.33} MnO ₃ at Temperatures above T _p . Molecular Crystals and Liquid Crystals, 2004, 417, 57-65.	0.9	0
118	Synthesis of new pyrrole-containing biomolecules as building blocks for functionalized polypyrroles in nanobiotechnology. Journal of Physics: Conference Series, 2009, 182, 012067.	0.4	0
119	Functionalization of polydopamine coated magnetic nanoparticles with biological entities. AIP Conference Proceedings, 2015, , .	0.4	0
120	Optimization of multicore-shell Fe ₃ O ₄ -SiO ₂ magnetic nanocomposites synthesis and retention in cellulose pulp. AIP Conference Proceedings, 2017, , .	0.4	0
121	The impulse photopyroelectric method for thermal characterization of electrically conducting polymers. Applied Physics A: Materials Science and Processing, 1995, 60, 455-458.	2.3	0