

K C Barick

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

3,915
citations

109264

35
h-index

118793

62
g-index

81
all docs

81
docs citations

81
times ranked

5568
citing authors

#	ARTICLE	IF	CITATIONS
1	Gelatin grafted Fe ₃ O ₄ based curcumin nanoformulation for cancer therapy. Journal of Drug Delivery Science and Technology, 2022, 67, 102974.	1.4	9
2	Defects in nanomaterials for visible light photocatalysis. , 2022, , 319-350.		8
3	Oxide-based magnetic nanoparticles: preparation, properties, functionalization, and applications in biomedical and environmental fields. , 2022, , 255-289.		0
4	Immobilization of protein on Fe ₃ O ₄ nanoparticles for magnetic hyperthermia application. International Journal of Biological Macromolecules, 2021, 166, 851-860.	3.6	48
5	Curcumin Encapsulated Casein Nanoparticles: Enhanced Bioavailability and Anticancer Efficacy. Journal of Pharmaceutical Sciences, 2021, 110, 2114-2120.	1.6	31
6	Structural, photoluminescence, and photocatalytic properties of Mn and Eu co-doped ZnO nanoparticles. Materials Today: Proceedings, 2021, 42, 926-931.	0.9	6
7	Core-shell Fe ₃ O ₄ @ZnO nanoparticles for magnetic hyperthermia and bio-imaging applications. AIP Advances, 2021, 11, .	0.6	25
8	Recent advances in active targeting of nanomaterials for anticancer drug delivery. Advances in Colloid and Interface Science, 2021, 296, 102509.	7.0	84
9	Malic acid grafted Fe ₃ O ₄ nanoparticles for controlled drug delivery and efficient heating source for hyperthermia therapy. Journal of Alloys and Compounds, 2021, 883, 160950.	2.8	17
10	Multifunctional growth of dendritic magnetic nanocarrier for targeted drug delivery. Materials Today: Proceedings, 2021, 43, 3286-3290.	0.9	1
11	Electrostatically bound lanreotide peptide - gold nanoparticle conjugates for enhanced uptake in SSTR2-positive cancer cells. Materials Science and Engineering C, 2020, 117, 111272.	3.8	5
12	Phenylseleno <i>N</i> -Acetyl L-Amino Acids Conjugated Magnetic Nanoparticles: Synthesis, Characterization and Radical Scavenging Ability. Chemistry Letters, 2020, 49, 1426-1430.	0.7	4
13	Thermal and microwave synthesized SPIONs: Energy effects on the efficiency of nano drug carriers. Materials Science and Engineering C, 2020, 111, 110792.	3.8	10
14	Glutamic acid-coated Fe ₃ O ₄ nanoparticles for tumor-targeted imaging and therapeutics. Materials Science and Engineering C, 2020, 112, 110915.	3.8	37
15	Micellar assisted aqueous stabilization of iron oxide nanoparticles for curcumin encapsulation and hyperthermia application. Nano Structures Nano Objects, 2020, 22, 100466.	1.9	13
16	Altering the X-ray Scattering Contrast of Triton X-100 Micelles and Its Trapping in a Supercooled Solvent. Journal of Physical Chemistry B, 2020, 124, 3418-3427.	1.2	4
17	pH-Labile Magnetic Nanocarriers for Intracellular Drug Delivery to Tumor Cells. ACS Omega, 2019, 4, 11728-11736.	1.6	30
18	Triton X-100 functionalized Fe ₃ O ₄ nanoparticles for biomedical applications. AIP Conference Proceedings, 2018, , .	0.3	1

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19	Covalent immobilization of doxorubicin in glycine functionalized hydroxyapatite nanoparticles for pH-responsive release. <i>New Journal of Chemistry</i> , 2018, 42, 6283-6292.	1.4	28
20	pH sensitive surfactant-stabilized Fe ₃ O ₄ magnetic nanocarriers for dual drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 162, 163-171.	2.5	51
21	PEG mediated shape-selective synthesis of cubic Fe ₃ O ₄ nanoparticles for cancer therapeutics. <i>Journal of Alloys and Compounds</i> , 2018, 737, 347-355.	2.8	53
22	Facile preparation of Silicon/ZnO thin film heterostructures and ultrasensitive toxic gas sensing at room temperature: Substrate dependence on specificity. <i>Analytica Chimica Acta</i> , 2018, 1039, 82-90.	2.6	15
23	Ag nanodots decorated SiO ₂ coated ZnO core-shell nanostructure with enhanced luminescence property as potential imaging agent. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	1
24	Heat-induced solubilization of curcumin in kinetically stable pluronic P123 micelles and vesicles: An exploit of slow dynamics of the micellar restructuring processes in the aqueous pluronic system. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 152, 176-182.	2.5	40
25	Surface decorated Fe ₃ O ₄ nanoparticles for magnetic hyperthermia. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	0
26	PEG coated vesicles from mixtures of Pluronic P123 and $\hat{\pm}$ -phosphatidylcholine: structure, rheology and curcumin encapsulation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 26821-26832.	1.3	18
27	Effect of sugar alcohol on colloidal stabilization of magnetic nanoparticles for hyperthermia and drug delivery applications. <i>Journal of Alloys and Compounds</i> , 2017, 725, 800-806.	2.8	41
28	Surface engineering of iron oxide nanoparticles for cancer therapy. <i>Biomedical Research Journal</i> , 2017, 4, 49.	0.4	3
29	PEG functionalized luminescent lipid particles for cellular imaging. <i>Chemical Physics Letters</i> , 2016, 659, 225-229.	1.2	1
30	Folic acid conjugated Fe ₃ O ₄ magnetic nanoparticles for targeted delivery of doxorubicin. <i>Dalton Transactions</i> , 2016, 45, 17401-17408.	1.6	88
31	Citrate-functionalized hydroxyapatite nanoparticles for pH-responsive drug delivery. <i>RSC Advances</i> , 2016, 6, 77968-77976.	1.7	41
32	Pluronic stabilized Fe ₃ O ₄ magnetic nanoparticles for intracellular delivery of curcumin. <i>RSC Advances</i> , 2016, 6, 98674-98681.	1.7	39
33	Roles of solvent, annealing and Bi ³⁺ co-doping on the crystal structure and luminescence properties of YPO ₄ :Eu ³⁺ nanoparticles. <i>RSC Advances</i> , 2015, 5, 68234-68242.	1.7	29
34	Covalent bridging of surface functionalized Fe ₃ O ₄ and YPO ₄ :Eu nanostructures for simultaneous imaging and therapy. <i>Dalton Transactions</i> , 2015, 44, 14686-14696.	1.6	28
35	Water-dispersible polyphosphate-grafted Fe ₃ O ₄ nanomagnets for cancer therapy. <i>RSC Advances</i> , 2015, 5, 86754-86762.	1.7	34
36	Effect of cetylpyridinium chloride on surface passivation and photocatalytic activity of ZnO nanostructures. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 1346-1355.	3.3	13

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37	Inactivation of bacterial pathogens under magnetic hyperthermia using Fe ₃ O ₄ @ZnO nanocomposite. Powder Technology, 2015, 269, 513-519.	2.1	52
38	Stimuli Responsive Carboxyl PEGylated Fe ₃ O ₄ Nanoparticles for Therapeutic Applications. Journal of Nanofluids, 2015, 4, 421-427.	1.4	15
39	Folate-conjugated luminescent Fe ₃ O ₄ nanoparticles for magnetic hyperthermia. , 2014, , .		2
40	Selective binding of proteins on functional nanoparticles via reverse charge parity model: an <i>in vitro</i> study. Materials Research Express, 2014, 1, 015017.	0.8	14
41	Superparamagnetic iron oxide/chitosan core/shells for hyperthermia application: Improved colloidal stability and biocompatibility. Journal of Magnetism and Magnetic Materials, 2014, 355, 22-30.	1.0	67
42	Fabrication and properties of Co doped ZnO spherical assemblies. Journal of Alloys and Compounds, 2014, 587, 282-286.	2.8	23
43	Biocompatible phosphate anchored Fe ₃ O ₄ nanocarriers for drug delivery and hyperthermia. New Journal of Chemistry, 2014, 38, 5500-5508.	1.4	48
44	Protein nanoparticle electrostatic interaction: Size dependent counterions induced conformational change of hen egg white lysozyme. Colloids and Surfaces B: Biointerfaces, 2014, 118, 1-6.	2.5	21
45	Carboxyl decorated Fe ₃ O ₄ nanoparticles for MRI diagnosis and localized hyperthermia. Journal of Colloid and Interface Science, 2014, 418, 120-125.	5.0	105
46	Polyaniline shell cross-linked Fe ₃ O ₄ magnetic nanoparticles for heat activated killing of cancer cells. Dalton Transactions, 2014, 43, 12263-12271.	1.6	51
47	Non-aqueous to aqueous phase transfer of oleic acid coated iron oxide nanoparticles for hyperthermia application. RSC Advances, 2014, 4, 4515-4522.	1.7	87
48	Rod-like micelle templated synthesis of porous hydroxyapatite. Ceramics International, 2013, 39, 8995-9002.	2.3	56
49	Fe ₃ O ₄ embedded ZnO nanocomposites for the removal of toxic metal ions, organic dyes and bacterial pathogens. Journal of Materials Chemistry A, 2013, 1, 3325.	5.2	186
50	Counter ion induced irreversible denaturation of hen egg white lysozyme upon electrostatic interaction with iron oxide nanoparticles: A predicted model. Colloids and Surfaces B: Biointerfaces, 2013, 103, 267-274.	2.5	27
51	Shape-controlled hierarchical ZnO architectures: photocatalytic and antibacterial activities. CrystEngComm, 2013, 15, 4631.	1.3	84
52	Highly water-dispersible surface-functionalized LSMO nanoparticles for magnetic fluid hyperthermia application. New Journal of Chemistry, 2013, 37, 2733.	1.4	60
53	Functional Oxide Nanomaterials and Nanocomposites for the Removal of Heavy Metals and Dyes. Nanomaterials and Nanotechnology, 2013, 3, 20.	1.2	102
54	Nanomagnetic chelators for removal of toxic metal ions. , 2013, , .		2

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55	Polyvinyl alcohol: an efficient fuel for synthesis of superparamagnetic LSMO nanoparticles for biomedical application. Dalton Transactions, 2012, 41, 3060.	1.6	95
56	pH-Responsive Peptide Mimic Shell Cross-Linked Magnetic Nanocarriers for Combination Therapy. Advanced Functional Materials, 2012, 22, 4975-4984.	7.8	93
57	Glycine passivated Fe ₃ O ₄ nanoparticles for thermal therapy. Journal of Colloid and Interface Science, 2012, 369, 96-102.	5.0	54
58	Defect mediated photocatalytic activity in shape-controlled ZnO nanostructures. Journal of Alloys and Compounds, 2011, 509, 6725-6730.	2.8	109
59	Surface engineered magnetic nanoparticles for removal of toxic metal ions and bacterial pathogens. Journal of Hazardous Materials, 2011, 192, 1539-1547.	6.5	296
60	Oxide and hybrid nanostructures for therapeutic applications. Advanced Drug Delivery Reviews, 2011, 63, 1267-1281.	6.6	115
61	Development of citrate-stabilized Fe ₃ O ₄ nanoparticles: Conjugation and release of doxorubicin for therapeutic applications. Journal of Magnetism and Magnetic Materials, 2011, 323, 237-243.	1.0	361
62	NOVEL AND EFFICIENT THREE DIMENSIONAL MESOPOROUS ZnO NANOASSEMBLIES FOR ENVIRONMENTAL REMEDIATION. International Journal of Nanoscience, 2011, 10, 1001-1005.	0.4	41
63	Controlled fabrication of oriented co-doped ZnO clustered nanoassemblies. Journal of Colloid and Interface Science, 2010, 349, 19-26.	5.0	21
64	Porosity and photocatalytic studies of transition metal doped ZnO nanoclusters. Microporous and Mesoporous Materials, 2010, 134, 195-202.	2.2	186
65	Self-Assembly of Colloidal Nanoscale Particles: Fabrication, Properties and Applications. Journal of Nanoscience and Nanotechnology, 2010, 10, 668-689.	0.9	15
66	Nanoscale assembly of mesoporous ZnO: A potential drug carrier. Journal of Materials Chemistry, 2010, 20, 6446.	6.7	135
67	Structural and magnetic properties of γ - and μ -Fe ₂ O ₃ nanoparticles dispersed in silica matrix. Journal of Non-Crystalline Solids, 2010, 356, 153-159.	1.5	30
68	Enhancement in multiferroic properties of system with removal of La. Solid State Communications, 2009, 149, 188-191.	0.9	37
69	Nanoscale assembly of amine-functionalized colloidal iron oxide. Journal of Magnetism and Magnetic Materials, 2009, 321, 1529-1532.	1.0	75
70	Defects in three-dimensional spherical assemblies of Ni-doped ZnO nanocrystals. Journal of Materials Research, 2009, 24, 3543-3550.	1.2	10
71	Novel and efficient MR active aqueous colloidal Fe ₃ O ₄ nanoassemblies. Journal of Materials Chemistry, 2009, 19, 7023.	6.7	144
72	Self-Aggregation and Assembly of Size-Tunable Transition Metal Doped ZnO Nanocrystals. Journal of Physical Chemistry C, 2008, 112, 15163-15170.	1.5	103

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73	Influence of Mn Doping on Structural and Vibrational Properties of Self-Assembled Mn Doped ZnO Nanocrystals. Journal of Nanoscience and Nanotechnology, 2008, 8, 4263-4267.	0.9	10
74	Synthesis, Self-Assembly, and Properties of Mn Doped ZnO Nanoparticles. Journal of Nanoscience and Nanotechnology, 2007, 7, 1935-1940.	0.9	29
75	Preparation of nanocrystalline MnFe ₂ O ₄ by doping with Ti ⁴⁺ ions using solid-state reaction route. Journal of Magnetism and Magnetic Materials, 2006, 307, 222-226.	1.0	36
76	Assembly of Fe ₃ O ₄ nanoparticles on SiO ₂ monodisperse spheres. Bulletin of Materials Science, 2006, 29, 595-598.	0.8	21
77	Processing, properties and some novel applications of magnetic nanoparticles. Pramana - Journal of Physics, 2005, 65, 663-679.	0.9	30
78	Fe ³⁺ doped SiO ₂ nanostructured gel-glasses: Structural, optical and magnetic properties. Journal of Non-Crystalline Solids, 2005, 351, 3693-3698.	1.5	10