Vikas Nandwana

List of Publications by Year
in descending order

53	1,765	236925 25	276875 41
papers	citations	h-index	g-index

58	58	58	2456
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Size-Dependent Chemical and Magnetic Ordering inL10-FePt Nanoparticles. Advanced Materials, 2006, 18, 2984-2988.	21.0	307
2	Monodisperse face-centred tetragonal FePt nanoparticles with giant coercivity. Journal Physics D: Applied Physics, 2005, 38, 2306-2309.	2.8	146
3	Size and Shape Control of Monodisperse FePt Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 4185-4189.	3.1	142
4	Hard magnetic FePt nanoparticles by salt-matrix annealing. Journal of Applied Physics, 2006, 99, 08E911.	2.5	83
5	Hierarchical Assembly of Collagen Peptide Triple Helices into Curved Disks and Metal Ion-Promoted Hollow Spheres. Journal of the American Chemical Society, 2013, 135, 3418-3422.	13.7	66
6	Bulk FePt-based nanocomposite magnets with enhanced exchange coupling. Journal of Applied Physics, 2007, 102, 023908.	2.5	52
7	Synthesis and Characterization of Bimagnetic Bricklike Nanoparticles. Chemistry of Materials, 2008, 20, 475-478.	6.7	49
8	Bimagnetic nanoparticles with enhanced exchange coupling and energy products. Journal of Applied Physics, 2009, 105, .	2.5	44
9	High thermal stability of carbon-coated L10-FePt nanoparticles prepared by salt-matrix annealing. Journal of Applied Physics, 2008, 103, .	2.5	43
10	Synthesis of FePt nanorods and nanowires by a facile method. Nanotechnology, 2008, 19, 355601.	2.6	42
11	Aromatic Stacking Interactions in Flavin Model Systems. Accounts of Chemical Research, 2013, 46, 1000-1009.	15.6	42
12	Direct patterning of quantum dot nanostructures via electron beam lithography. Journal of Materials Chemistry, 2011, 21, 16859.	6.7	41
13	Synthesis and Characterization of Magnetic FePt/Au Core/Shell Nanoparticles. Journal of Physical Chemistry C, 2009, 113, 13088-13091.	3.1	40
14	High-Density Lipoprotein-like Magnetic Nanostructures (HDL-MNS): Theranostic Agents for Cardiovascular Disease. Chemistry of Materials, 2017, 29, 2276-2282.	6.7	38
15	Formation of Fe3Pt phase in FePt-based nanocomposite magnets. Journal Physics D: Applied Physics, 2007, 40, 712-716.	2.8	36
16	Engineered Theranostic Magnetic Nanostructures: Role of Composition and Surface Coating on Magnetic Resonance Imaging Contrast and Thermal Activation. ACS Applied Materials & Interfaces, 2016, 8, 6953-6961.	8.0	36
17	Structural phase transition and ferromagnetism in monodisperse 3 nm FePt particles. Journal of Applied Physics, 2007, 102, .	2.5	35
18	Highly sensitive and ultra-rapid antigen-based detection of SARS-CoV-2 using nanomechanical sensor platform. Biosensors and Bioelectronics, 2022, 195, 113647.	10.1	34

#	Article	IF	Citations
19	Rapid thermal annealing of FePt nanoparticles. Journal of Applied Physics, 2008, 104, 013918.	2.5	33
20	One-Pot Green Synthesis of Fe₃O₄/MoS₂ 0D/2D Nanocomposites and Their Application in Noninvasive Point-of-Care Glucose Diagnostics. ACS Applied Nano Materials, 2018, 1, 1949-1958.	5.0	33
21	Phase Transformation of FePt Nanoparticles. IEEE Transactions on Magnetics, 2006, 42, 3036-3041.	2.1	31
22	Theranostic Magnetic Nanostructures (MNS) for Cancer. Cancer Treatment and Research, 2015, 166, 51-83.	0.5	30
23	Solvatochromic probes for detecting hydrogen-bond-donating solvents. Chemical Communications, 2014, 50, 4579.	4.1	29
24	Effect of nano-scale curvature on the intrinsic blood coagulation system. Nanoscale, 2014, 6, 14484-14487.	5.6	27
25	Microstructures and magnetic alignment of L10 FePt nanoparticles. Journal of Applied Physics, 2007, 101, 09J113.	2.5	26
26	Exchange Coupling in Soft Magnetic Nanostructures and Its Direct Effect on Their Theranostic Properties. ACS Applied Materials & Interfaces, 2018, 10, 27233-27243.	8.0	26
27	Magnetic hardening in ultrafine FePt nanoparticle assembled films. Nanotechnology, 2005, 16, 2823-2826.	2.6	25
28	Bulk FePtâˆ•Fe3Pt nanocomposite magnets prepared by spark plasma sintering. Journal of Applied Physics, 2007, 101, 09K515.	2.5	24
29	Magnetic lipid nanocapsules (MLNCs): self-assembled lipid-based nanoconstruct for non-invasive theranostic applications. Journal of Materials Chemistry B, 2018, 6, 1026-1034.	5.8	20
30	Engineered ferritin nanocages as natural contrast agents in magnetic resonance imaging. RSC Advances, 2017, 7, 34892-34900.	3.6	18
31	OHM Sponge: A Versatile, Efficient, and Ecofriendly Environmental Remediation Platform. Industrial & Engineering Chemistry Research, 2020, 59, 10945-10954.	3.7	18
32	Magnetic Nanostructure-Coated Thermoresponsive Hydrogel Nanoconstruct As a Smart Multimodal Theranostic Platform. ACS Biomaterials Science and Engineering, 2019, 5, 3049-3059.	5.2	17
33	Magnetic Nanostructure-Loaded Bicontinuous Nanospheres Support Multicargo Intracellular Delivery and Oxidation-Responsive Morphological Transitions. ACS Applied Materials & Interfaces, 2020, 12, 55584-55595.	8.0	15
34	Biomimetic Magnetic Nanostructures: A Theranostic Platform Targeting Lipid Metabolism and Immune Response in Lymphoma. ACS Nano, 2019, 13, 10301-10311.	14.6	14
35	Inversed tunneling magnetoresistance in hybrid FePt/Fe3O4 core/shell nanoparticles systems. Journal of Applied Physics, 2010, 108, .	2.5	12
36	Phosphate Elimination and Recovery Lightweight (PEARL) membrane: A sustainable environmental remediation approach. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	12

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37	Engineering the Nanoscale Morphology of a Quantum Dotâ€“Fullerene Assembly via Complementary Hydrogen Bonding Interactions. Langmuir, 2013, 29, 7534-7537.	3.5	11
38	The Therapeutic and Diagnostic Potential of Amyloid Î² Oligomers Selective Antibodies to Treat Alzheimerâ€™s Disease. Frontiers in Neuroscience, 2021, 15, 768646.	2.8	10
39	Patterning of Protein/Quantum Dot Hybrid Bionanostructures. Journal of Inorganic and Organometallic Polymers and Materials, 2013, 23, 227-232.	3.7	9
40	A Novel Approach to Synthesis of FePt Magnetic Nanoparticles. Journal of Nano Research, 2008, 1, 23-30.	0.8	8
41	Magnetic Properties of Fe_{<I>x</I>}Pt_{<I>y</I>}Au_{100â^’<I>x</I>â^’<I>y</I>} Nanoparticles. Journal of Nanoscience and Nanotechnology, 2010, 10, 2979-2983.	0.9	6
42	Recognition-Mediated Assembly of Quantum Dot Polymer Conjugates with Controlled Morphology. International Journal of Molecular Sciences, 2011, 12, 6357-6366.	4.1	6
43	Synthesis and Characterization of Naphthalenediimide-Functionalized Flavin Derivatives. International Journal of Molecular Sciences, 2013, 14, 7468-7479.	4.1	5
44	Magnetoferritin enhances T2 contrast in magnetic resonance imaging of macrophages. Materials Science and Engineering C, 2021, 128, 112282.	7.3	5
45	AÎ² oligomer induced cognitive impairment and evaluation of ACU193â€MNSâ€based MRI in rabbit. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2020, 6, e12087.	3.7	4
46	Lipocalinâ€Type Prostaglandin <scp>d</scp> Synthase Conjugates as Magnetic Resonance Imaging Contrast Agents for Detecting Amyloid Î²â€Rich Regions in the Brain of Live Alzheimer's Disease Mice. Advanced NanoBiomed Research, 2021, 1, 2100019.	3.6	4
47	Phase Transformation and Magnetic Hardening in Isolated FePt Nanoparticles. IEEE Nanotechnology Magazine, 2009, 8, 437-443.	2.0	3
48	Fluorescence resonance energy transfer in recognition-mediated polymer-quantum dot assemblies. Polymer Chemistry, 2012, 3, 3072.	3.9	3
49	Magnetic Hardening in Isolated FePt Nanoparticles. , 2008, , .		1
50	Addition and corrections published 31st October 2013 to 10th July 2014. Chemical Communications, 2014, 50, 9595.	4.1	1
51	Multimodal Characterization of the Oleophilic Hydrophobic Magnetic (OHM) Sponge: A Nanocomposite Material for Oil Spill Remediation. Microscopy and Microanalysis, 2020, 26, 2754-2756.	0.4	1
52	Response to Comment on â€œInversed tunneling magnetoresistance in hybrid FePt/Fe3O4 core/shell nanoparticles systemsâ€•[J. Appl. Phys. 109, 086101 (2011)]. Journal of Applied Physics, 2011, 109, 086102.	2.5	0
53	Multimodal Characterization of Hierarchically Porous Nanocomposite Materials: The Case Study of the PEARL Membrane. Microscopy and Microanalysis, 2021, 27, 2006-2009.	0.4	0