

Muhammad Nawaz Tahir

List of Publications by Year in descending order

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184
papers

7,691
citations

38742
50
h-index

64796
79
g-index

192
all docs

192
docs citations

192
times ranked

10458
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in Graphene/Inorganic Nanoparticle Composites for Catalytic Applications. Chemical Record, 2022, 22, e202100274.	5.8	16
2	<i>Pulicaria undulata</i> Extract-Mediated Eco-Friendly Preparation of TiO ₂ Nanoparticles for Photocatalytic Degradation of Methylene Blue and Methyl Orange. ACS Omega, 2022, 7, 4812-4820.	3.5	43
3	High-throughput synthesis of CeO ₂ nanoparticles for transparent nanocomposites repelling <i>Pseudomonas aeruginosa</i> biofilms. Scientific Reports, 2022, 12, 3935.	3.3	7
4	Pyrene Functionalized Highly Reduced Graphene Oxide-palladium Nanocomposite: A Novel Catalyst for the Mizoroki-Heck Reaction in Water. Frontiers in Chemistry, 2022, 10, 872366.	3.6	2
5	SERS and EC-SERS detection of local anesthetic procaine using Pd loaded highly reduced graphene oxide nanocomposite substrate. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 278, 121381.	3.9	7
6	Electrocatalytic Investigations into a PdNi Nanostructured Alloy Supported over a Graphite Sheet toward Pt-like Hydrogen Evolution Activity. Energy & Fuels, 2022, 36, 5910-5919.	5.1	10
7	Esterification of Salicylic acid with Succinylated Dextran Using ZrOCl ₂ ·8H ₂ O over MCM-41: A Novel Strategy to Design Polysaccharide-Based Macromolecular Prodrugs. Arabian Journal for Science and Engineering, 2021, 46, 5583-5591.	3.0	0
8	A High-Performance Asymmetric Supercapacitor Based on Tungsten Oxide Nanoplates and Highly Reduced Graphene Oxide Electrodes. Chemistry - A European Journal, 2021, 27, 6973-6984.	3.3	75
9	Non-aqueous synthesis of AuCu@ZnO alloy-semiconductor heteroparticles for photocatalytic degradation of organic dyes. Journal of Saudi Chemical Society, 2021, 25, 101210.	5.2	6
10	A Generalized Method for High-Speed Fluorination of Metal Oxides by Spark Plasma Sintering Yields Ta ₃ O ₇ F and TaO ₂ F with High Photocatalytic Activity for Oxygen Evolution from Water. Advanced Materials, 2021, 33, e2007434.	21.0	24
11	High-speed solid state fluorination of Nb ₂ O ₅ yields NbO ₂ F and Nb ₃ O ₇ F with photocatalytic activity for oxygen evolution from water. Dalton Transactions, 2021, 50, 6528-6538.	3.3	7
12	COVID-19: A Global Challenge with Old History, Epidemiology and Progress So Far. Molecules, 2021, 26, 39.	3.8	296
13	Capparis decidua Edgew (Forssk.): A comprehensive review of its traditional uses, phytochemistry, pharmacology and nutraceutical potential. Arabian Journal of Chemistry, 2020, 13, 1901-1916.	4.9	29
14	Flurbiprofen conjugates based on hydroxyethylcellulose: Synthesis, characterization, pharmaceutical and pharmacological applications. Arabian Journal of Chemistry, 2020, 13, 2101-2109.	4.9	2
15	Sodium hydroxyethylcellulose adipate: An efficient and reusable sorbent for cadmium uptake from spiked high-hardness ground water. Arabian Journal of Chemistry, 2020, 13, 2766-2777.	4.9	5
16	Hematite and Magnetite Nanostructures for Green and Sustainable Energy Harnessing and Environmental Pollution Control: A Review. Chemical Research in Toxicology, 2020, 33, 1292-1311.	3.3	102
17	Facile synthesis of Pd@graphene nanocomposites with enhanced catalytic activity towards Suzuki coupling reaction. Scientific Reports, 2020, 10, 11728.	3.3	26
18	Selective Synthesis of Monodisperse CoO Nanooctahedra as Catalysts for Electrochemical Water Oxidation. Langmuir, 2020, 36, 13804-13816.	3.5	16

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19	Synthesis of Au, Ag, and Au@Ag Bimetallic Nanoparticles Using <i>Pulicaria undulata</i> Extract and Their Catalytic Activity for the Reduction of 4-Nitrophenol. <i>Nanomaterials</i> , 2020, 10, 1885.	4.1	52
20	Synthesis of hierarchically organized Fe_2O_3 nanostructures for the photocatalytic degradation of methylene blue. <i>Emergent Materials</i> , 2020, 3, 605-612.	5.7	11
21	Design, characterization and enhanced bioavailability of hydroxypropylcellulose-naproxen conjugates. <i>Arabian Journal of Chemistry</i> , 2020, 13, 5717-5723.	4.9	2
22	Efficient aerial oxidation of different types of alcohols using ZnO nanoparticle@MnCO ₃ @graphene oxide composites. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5718.	3.5	23
23	One-pot synthesis, crystal structure and antimicrobial activity of 6-benzyl-11-(p-tolyl)-6H-indolo[2,3-b]quinoline. <i>Journal of Molecular Structure</i> , 2020, 1210, 128035.	3.6	6
24	Hydroxypropylcellulose-flurbiprofen conjugates: design, characterization, anti-inflammatory activity and enhanced bioavailability. <i>Saudi Pharmaceutical Journal</i> , 2020, 28, 869-875.	2.7	3
25	Solid State Fluorination on the Minute Scale: Synthesis of WO ₃ @F _x with Photocatalytic Activity. <i>Advanced Functional Materials</i> , 2020, 30, 1909051.	14.9	15
26	Enhanced Antimicrobial Activity of Biofunctionalized Zirconia Nanoparticles. <i>ACS Omega</i> , 2020, 5, 1987-1996.	3.5	71
27	Facile Sonochemical Preparation of Au-ZrO ₂ Nanocatalyst for the Catalytic Reduction of 4-Nitrophenol. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 503.	2.5	12
28	Functional Enzyme Mimics for Oxidative Halogenation Reactions that Combat Biofilm Formation. <i>Nanostructure Science and Technology</i> , 2020, , 195-278.	0.1	7
29	Methyl-substituted 2-aminothiazole-based cobalt(II) and silver(I) complexes:synthesis, X-ray structures, and biological activities. <i>Turkish Journal of Chemistry</i> , 2019, 43, 857-868.	1.2	17
30	A Facile Synthesis of ZrO _x -MnCO ₃ /Graphene Oxide (GRO) Nanocomposites for the Oxidation of Alcohols using Molecular Oxygen under Base Free Conditions. <i>Catalysts</i> , 2019, 9, 759.	3.5	12
31	Solvothermal Preparation and Electrochemical Characterization of Cubic ZrO ₂ Nanoparticles/Highly Reduced Graphene (HRG) based Nanocomposites. <i>Materials</i> , 2019, 12, 711.	2.9	26
32	Quince Seed Mucilage: A Stimuli-Responsive/Smart Biopolymer. <i>Polymers and Polymeric Composites</i> , 2019, , 127-148.	0.6	8
33	Quince Seed Mucilage: A Stimuli-Responsive/Smart Biopolymer. <i>Polymers and Polymeric Composites</i> , 2019, , 1-22.	0.6	1
34	Synthesis, antibacterial activity and docking studies of chloroacetamide derivatives. <i>European Journal of Chemistry</i> , 2019, 10, 358-366.	0.6	7
35	A Step into the Future: Applications of Nanoparticle Enzyme Mimics. <i>Chemistry - A European Journal</i> , 2018, 24, 9703-9713.	3.3	80
36	Monitoring Thiol-Ligand Exchange on Au Nanoparticle Surfaces. <i>Langmuir</i> , 2018, 34, 1700-1710.	3.5	32

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37	From Single Molecules to Nanostructured Functional Materials: Formation of a Magnetic Foam Catalyzed by Pd@Fe ₃ O ₄ Heterodimers. ACS Applied Nano Materials, 2018, 1, 1050-1057.	5.0	5
38	The surface chemistry of iron oxide nanocrystals: surface reduction of Fe_3O_4 to Fe_2O_3 by redox-active catechol surface ligands. Journal of Materials Chemistry C, 2018, 6, 326-333.	5.5	19
39	Controlling the Morphology of Au@Pd Heterodimer Nanoparticles by Surface Ligands. Inorganic Chemistry, 2018, 57, 13640-13652.	4.0	9
40	Bio-nano: Theranostic at Cellular Level. AAPS Advances in the Pharmaceutical Sciences Series, 2018, , 85-170.	0.6	1
41	Solvothermal Synthesis of Molybdenum-Tungsten Oxides and Their Application for Photoelectrochemical Water Splitting. ACS Sustainable Chemistry and Engineering, 2018, 6, 12641-12649.	6.7	20
42	CeO ₂ nanorods with intrinsic urease-like activity. Nanoscale, 2018, 10, 13074-13082.	5.6	59
43	Frontispiece: A Step into the Future: Applications of Nanoparticle Enzyme Mimics. Chemistry - A European Journal, 2018, 24, .	3.3	2
44	Iron Oxide Superparticles with Enhanced MRI Performance by Solution Phase Epitaxial Growth. Chemistry of Materials, 2018, 30, 4277-4288.	6.7	10
45	Plant extracts as green reductants for the synthesis of silver nanoparticles: lessons from chemical synthesis. Dalton Transactions, 2018, 47, 11988-12010.	3.3	97
46	Functional Enzyme Mimics for Oxidative Halogenation Reactions that Combat Biofilm Formation. Advanced Materials, 2018, 30, e1707073.	21.0	73
47	Glycine-functionalized copper(II) hydroxide nanoparticles with high intrinsic superoxide dismutase activity. Nanoscale, 2017, 9, 3952-3960.	5.6	64
48	Surface Defects as a Tool to Solubilize and Functionalize WS ₂ Nanotubes. European Journal of Inorganic Chemistry, 2017, 2017, 2190-2194.	2.0	6
49	Benzyl Alcohol Assisted Synthesis and Characterization of Highly Reduced Graphene Oxide (HRG)/ZrO ₂ Nanocomposites. ChemistrySelect, 2017, 2, 3078-3083.	1.5	6
50	Design, characterization and evaluation of hydroxyethylcellulose based novel regenerable supersorbent for heavy metal ions uptake and competitive adsorption. International Journal of Biological Macromolecules, 2017, 102, 170-180.	7.5	40
51	Synthesis and Comparative Catalytic Study of Zirconia-MnCO ₃ or -Mn ₂ O ₃ for the Oxidation of Benzylic Alcohols. ChemistryOpen, 2017, 6, 112-120.	1.9	10
52	Pd@Fe ₂ O ₃ Superparticles with Enhanced Peroxidase Activity by Solution Phase Epitaxial Growth. Chemistry of Materials, 2017, 29, 1134-1146.	6.7	58
53	A highly reduced graphene oxide/ZrO ₂ -MnCO ₃ or -Mn ₂ O ₃ nanocomposite as an efficient catalyst for selective aerial oxidation of benzylic alcohols. RSC Advances, 2017, 7, 55336-55349.	3.6	42
54	Fabrication, characterization, thermal stability and nanoassemblies of novel pullulan-aspirin conjugates. Arabian Journal of Chemistry, 2017, 10, S1597-S1603.	4.9	19

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55	Plant Extract Mediated Eco-Friendly Synthesis of Pd@Graphene Nanocatalyst: An Efficient and Reusable Catalyst for the Suzuki-Miyaura Coupling. Catalysts, 2017, 7, 20.	3.5	20
56	Block copolymers from ionic liquids for the preparation of thin carbonaceous shells. Beilstein Journal of Organic Chemistry, 2017, 13, 1693-1701.	2.2	2
57	Calixarene: A Versatile Material for Drug Design and Applications. Current Pharmaceutical Design, 2017, 23, 2377-2388.	1.9	34
58	Extraordinary Performance of Carbonâ€Coated Anatase TiO ₂ as Sodiumâ€Ion Anode. Advanced Energy Materials, 2016, 6, 1501489.	19.5	205
59	Structural analysis of Gossypium hirsutum fibers grown under greenhouse and hydroponic conditions. Journal of Structural Biology, 2016, 194, 292-302.	2.8	9
60	Anisotropic nanoparticles: general discussion. Faraday Discussions, 2016, 191, 229-254.	3.2	8
61	Janus and patchy nanoparticles: general discussion. Faraday Discussions, 2016, 191, 117-139.	3.2	3
62	Intrinsic superoxide dismutase activity of MnO nanoparticles enhances the magnetic resonance imaging contrast. Journal of Materials Chemistry B, 2016, 4, 7423-7428.	5.8	74
63	Solids Go Bio: Inorganic Nanoparticles as Enzyme Mimics. European Journal of Inorganic Chemistry, 2016, 2016, 1906-1915.	2.0	167
64	Facile hybridization of Ni@Fe ₂ O ₃ superparticles with functionalized reduced graphene oxide and its application as anode material in lithium-ion batteries. Journal of Colloid and Interface Science, 2016, 478, 155-163.	9.4	16
65	Advances in biogenic synthesis of palladium nanoparticles. RSC Advances, 2016, 6, 60277-60286.	3.6	41
66	Hierarchical Ni@Fe ₂ O ₃ superparticles through epitaxial growth of Î³-Fe ₂ O ₃ nanorods on <i>in situ</i> formed Ni nanoplates. Nanoscale, 2016, 8, 9548-9555.	5.6	21
67	Facile one-pot synthesis of polytypic (wurtziteâ€chalcopyrite) CuGaS ₂ . Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	7
68	Green synthesis of Pd@graphene nanocomposite: Catalyst for the selective oxidation of alcohols. Arabian Journal of Chemistry, 2016, 9, 835-845.	4.9	50
69	Synthesis and characterization of carbon coated sponge-like tin oxide (SnO _x) films and their application as electrode materials in lithium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 612-619.	10.3	37
70	Extended release and enhanced bioavailability of moxifloxacin conjugated with hydrophilic cellulose ethers. Carbohydrate Polymers, 2016, 136, 1297-1306.	10.2	22
71	Synthesis of Mesoporous Supraparticles on Superamphiphobic Surfaces. Advanced Materials, 2015, 27, 7338-7343.	21.0	91
72	Hydroxypropylcellulose as a novel green reservoir for the synthesis, stabilization, and storage of silver nanoparticles. International Journal of Nanomedicine, 2015, 10, 2079.	6.7	16

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73	Vanadia supported on nickel manganese oxide nanocatalysts for the catalytic oxidation of aromatic alcohols. <i>Nanoscale Research Letters</i> , 2015, 10, 52.	5.7	18
74	Humidity-sensing and DNA-binding ability of bis(4-benzylpiperazine-1-carbodithioatoκ^2-S,κ^2-N)$\text{Ni}(\text{II})$. <i>Journal of Coordination Chemistry</i> , 2015, 68, 295-307.	2.2	11
75	Graphene based metal and metal oxide nanocomposites: synthesis, properties and their applications. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18753-18808.	10.3	563
76	Carbon-Coated Anatase TiO_2 Nanotubes for Li- and Na-Ion Anodes. <i>Journal of the Electrochemical Society</i> , 2015, 162, A3013-A3020.	2.9	80
77	Amine functionalized ZrO_2 nanoparticles as biocompatible and luminescent probes for ligand specific cellular imaging. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2371-2377.	5.8	13
78	Precursor Polymers for the Carbon Coating of Au@ZnO Multipods for Application as Active Material in Lithium-Ion Batteries. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1075-1082.	3.9	30
79	Silica-coated Au@ZnO Janus particles and their stability in epithelial cells. <i>Journal of Materials Chemistry B</i> , 2015, 3, 1813-1822.	5.8	15
80	Ultrastrong composites from dopamine modified-polymer-infiltrated colloidal crystals. <i>Materials Horizons</i> , 2015, 2, 434-441.	12.2	7
81	One-pot thermolysis synthesis of CuInS_2 nanoparticles with chalcopyrite-wurtzite polytypism structure. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 8960-8972.	2.2	9
82	<i>Pulicaria glutinosa</i> Extract: A Toolbox to Synthesize Highly Reduced Graphene Oxide-Silver Nanocomposites. <i>International Journal of Molecular Sciences</i> , 2015, 16, 1131-1142.	4.1	53
83	Succinate-bonded pullulan: An efficient and reusable super-sorbent for cadmium-uptake from spiked high-hardness groundwater. <i>Journal of Environmental Sciences</i> , 2015, 37, 51-58.	6.1	22
84	Synthesis, biological evaluation and molecular docking of N-phenyl thiosemicarbazones as urease inhibitors. <i>Bioorganic Chemistry</i> , 2015, 61, 51-57.	4.1	65
85	Green Approach for the Effective Reduction of Graphene Oxide Using <i>Salvadora persica</i> L. Root (Miswak) Extract. <i>Nanoscale Research Letters</i> , 2015, 10, 987.	5.7	138
86	Multiple cross-linked hydroxypropylcellulose-succinate-salicylate: prodrug design, characterization, stimuli responsive swelling-deswelling and sustained drug release. <i>RSC Advances</i> , 2015, 5, 43440-43448.	3.6	16
87	Genotoxic effects of zinc oxide nanoparticles. <i>Nanoscale</i> , 2015, 7, 8931-8938.	5.6	89
88	Novel high-loaded, nanoparticulate and thermally stable macromolecular prodrug design of NSAIDs based on hydroxypropylcellulose. <i>Cellulose</i> , 2015, 22, 461-471.	4.9	16
89	Cellulose ether derivatives: a new platform for prodrug formation of fluoroquinolone antibiotics. <i>Cellulose</i> , 2015, 22, 2011-2022.	4.9	30
90	High-Performance TiO_2 Nanoparticle/DOPA-Polymer Composites. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1129-1137.	3.9	14

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91	Structural and optical properties of Fe and Zn substituted CuInS ₂ nanoparticles synthesized by a one-pot facile method. Journal of Materials Chemistry C, 2015, 3, 889-898.	5.5	15
92	Potential biological role of laccase from the sponge Suberites domuncula as an antibacterial defense component. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 118-128.	2.4	23
93	Localization and Characterization of Ferritin in Demospongiae: A Possible Role on Spiculogenesis. Marine Drugs, 2014, 12, 4659-4676.	4.6	4
94	Synthesis, characterization, crystal structures, enzyme inhibition, DNA binding, and electrochemical studies of zinc(II) complexes. Journal of Coordination Chemistry, 2014, 67, 1290-1308.	2.2	14
95	Functionalization of TiO ₂ Nanoparticles with Semiconducting Polymers Containing a Photocleavable Anchor Group and Separation via Irradiation Afterward. Macromolecular Chemistry and Physics, 2014, 215, 604-613.	2.2	10
96	One pot light assisted green synthesis, storage and antimicrobial activity of dextran stabilized silver nanoparticles. Journal of Nanobiotechnology, 2014, 12, 53.	9.1	29
97	Rational assembly and dual functionalization of Au@MnO heteroparticles on TiO ₂ nanowires. New Journal of Chemistry, 2014, 38, 2031-2036.	2.8	3
98	Molybdenum Trioxide Nanoparticles with Intrinsic Sulfite Oxidase Activity. ACS Nano, 2014, 8, 5182-5189.	14.6	135
99	Fabrication of Single Cylindrical Au-Coated Nanopores with Non-Homogeneous Fixed Charge Distribution Exhibiting High Current Rectifications. ACS Applied Materials & Interfaces, 2014, 6, 12486-12494.	8.0	55
100	Pulicaria glutinosa plant extract: a green and eco-friendly reducing agent for the preparation of highly reduced graphene oxide. RSC Advances, 2014, 4, 24119-24125.	3.6	73
101	Structural and Optical Study of Ga ³⁺ Substitution in CuInS ₂ Nanoparticles Synthesized by a One-Pot Facile Method. Journal of Physical Chemistry C, 2014, 118, 24670-24679.	3.1	29
102	Stabilizing nanostructured lithium insertion materials via organic hybridization: A step forward towards high-power batteries. Journal of Power Sources, 2014, 248, 852-860.	7.8	15
103	Facile hydrothermal synthesis of crystalline Ta ₂ O ₅ nanorods, MTaO ₃ (M = H, Na, K, Rb) nanoparticles, and their photocatalytic behaviour. Journal of Materials Chemistry A, 2014, 2, 8033-8040.	10.3	33
104	Biogenic synthesis of palladium nanoparticles using Pulicaria glutinosa extract and their catalytic activity towards the Suzuki coupling reaction. Dalton Transactions, 2014, 43, 9026-9031.	3.3	157
105	Controlled synthesis of linear and branched Au@ZnO hybrid nanocrystals and their photocatalytic properties. Nanoscale, 2013, 5, 9944.	5.6	105
106	Plasmon-enhanced photocurrent in quasi-solid-state dye-sensitized solar cells by the inclusion of gold/silica core-shell nanoparticles in a TiO ₂ photoanode. Journal of Materials Chemistry A, 2013, 1, 12627.	10.3	24
107	Translational and rotational diffusion of gold nanorods near a wall. Journal of Chemical Physics, 2013, 139, 064710.	3.0	11
108	Polyacrylonitrile Block Copolymers for the Preparation of a Thin Carbon Coating Around TiO ₂ Nanorods for Advanced Lithium-Ion Batteries. Macromolecular Rapid Communications, 2013, 34, 1693-1700.	3.9	31

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109	Self-cleaning antimicrobial surfaces by bio-enabled growth of SnO ₂ coatings on glass. <i>Nanoscale</i> , 2013, 5, 3447.	5.6	28
110	Graphene-type sheets of Nb _{1-x} W _x S ₂ : synthesis and in situ functionalization. <i>Dalton Transactions</i> , 2013, 42, 5292.	3.3	5
111	Silicatein conjugation inside nanoconfined geometries through immobilized NTA-Ni(ii) chelates. <i>Chemical Communications</i> , 2013, 49, 2210.	4.1	22
112	Low temperature synthesis of monodisperse nanoscaled ZrO ₂ with a large specific surface area. <i>Dalton Transactions</i> , 2013, 42, 432-440.	3.3	19
113	Highly water-soluble magnetic iron oxide (Fe ₃ O ₄) nanoparticles for drug delivery: enhanced in vitro therapeutic efficacy of doxorubicin and MION conjugates. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2874.	5.8	92
114	Hydroxypropylcellulose-aceclofenac conjugates: high covalent loading design, structure characterization, nano-assemblies and thermal kinetics. <i>Cellulose</i> , 2013, 20, 717-725.	4.9	11
115	Green synthesis of silver nanoparticles mediated by <i>Pulicaria glutinosa</i> extract. <i>International Journal of Nanomedicine</i> , 2013, 8, 1507.	6.7	151
116	Gold-surface binding of molecular switches studied by Mössbauer spectroscopy. , 2013, , 211-215.		0
117	Ni@Fe ₂ O ₃ heterodimers: controlled synthesis and magnetically recyclable catalytic application for dehalogenation reactions. <i>Nanoscale</i> , 2012, 4, 4571.	5.6	21
118	Multi-photon imaging of amine-functionalized silica nanoparticles. <i>Nanoscale</i> , 2012, 4, 4680.	5.6	5
119	CpG-DNA loaded multifunctional MnO nanoshuttles for TLR9-specific cellular cargo delivery, selective immune-activation and MRI. <i>Journal of Materials Chemistry</i> , 2012, 22, 8826.	6.7	18
120	Gold-surface binding of molecular switches studied by Mössbauer spectroscopy. <i>Hyperfine Interactions</i> , 2012, 205, 63-67.	0.5	1
121	Bioinspired synthesis of multifunctional inorganic and bio-organic hybrid materials. <i>FEBS Journal</i> , 2012, 279, 1737-1749.	4.7	39
122	Controlling phase formation in solids: rational synthesis of phase separated Co@Fe ₂ O ₃ heteroparticles and CoFe ₂ O ₄ nanoparticles. <i>Chemical Communications</i> , 2011, 47, 8898.	4.1	22
123	From Single Molecules to Nanoscopically Structured Materials: Self-Assembly of Metal Chalcogenide/Metal Oxide Nanostructures Based on the Degree of Pearson Hardness. <i>Chemistry of Materials</i> , 2011, 23, 3534-3539.	6.7	20
124	Enzymatic Synthesis and Surface Deposition of Tin Dioxide using Silicatein-1. <i>Chemistry of Materials</i> , 2011, 23, 5358-5365.	6.7	28
125	Soluble IF-ReS ₂ Nanoparticles by Surface Functionalization with Terpyridine Ligands. <i>Langmuir</i> , 2011, 27, 385-391.	3.5	13
126	Chemical Mimicry: Hierarchical 1D TiO ₂ @ZrO ₂ Core-Shell Structures Reminiscent of Sponge Spicules by the Synergistic Effect of Silicatein-1 and Silintaphin-1. <i>Langmuir</i> , 2011, 27, 5464-5471.	3.5	14

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127	Hydrogen Peroxide Sensing with Horseradish Peroxidase-Modified Polymer Single Conical Nanochannels. <i>Analytical Chemistry</i> , 2011, 83, 1673-1680.	6.5	168
128	Metal Ion Affinity-based Biomolecular Recognition and Conjugation inside Synthetic Polymer Nanopores Modified with Iron-terpyridine Complexes. <i>Journal of the American Chemical Society</i> , 2011, 133, 17307-17314.	13.7	120
129	Biomolecular conjugation inside synthetic polymer nanopores via glycoprotein-lectin interactions. <i>Nanoscale</i> , 2011, 3, 1894.	5.6	78
130	Phase separated Cu@Fe ₃ O ₄ heterodimer nanoparticles from organometallic reactants. <i>Journal of Materials Chemistry</i> , 2011, 21, 8605.	6.7	44
131	Hydrogen peroxide sensors for cellular imaging based on horse radish peroxidase reconstituted on polymer-functionalized TiO ₂ nanorods. <i>Nanoscale</i> , 2011, 3, 3907.	5.6	26
132	Synthesis, characterization and functionalization of nearly mono-disperse copper ferrite Cu _x Fe _{3-x} O ₄ nanoparticles. <i>Journal of Materials Chemistry</i> , 2011, 21, 6909.	6.7	25
133	Macromolecular prodrugs of aspirin with HPMC: A nano particulate drug design, characterization, and pharmacokinetic studies. <i>Macromolecular Research</i> , 2011, 19, 1296-1302.	2.4	14
134	Molecular Camouflage: Making Use of Protecting Groups To Control the Self-Assembly of Inorganic Janus Particles onto Metal-Chalcogenide Nanotubes by Pearson Hardness. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12271-12275.	13.8	26
135	Engineered Multifunctional Nanotools for Biological Applications. <i>Methods in Molecular Biology</i> , 2011, 790, 203-214.	0.9	4
136	Fabrication of potential macromolecular prodrugs of aspirin and diclofenac with dextran. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2011, 24, 575-81.	0.2	4
137	Highly soluble multifunctional MnO nanoparticles for simultaneous optical and MRI imaging and cancer treatment using photodynamic therapy. <i>Journal of Materials Chemistry</i> , 2010, 20, 8297.	6.7	79
138	An efficient esterification of pullulan using carboxylic acid anhydrides activated with iodine. <i>Collection of Czechoslovak Chemical Communications</i> , 2010, 75, 133-143.	1.0	7
139	IF ₂ ReS ₂ with Covalently Linked Porphyrin Antennae. <i>Israel Journal of Chemistry</i> , 2010, 50, 500-505.	2.3	13
140	Silicatein-mediated incorporation of titanium into spicules from the demosponge <i>Suberites domuncula</i> . <i>Cell and Tissue Research</i> , 2010, 339, 429-436.	2.9	17
141	Reversible Selbstorganisation von Metallchalkogenid-Metalloxid-Nanostrukturen basierend auf dem Pearson-Konzept. <i>Angewandte Chemie</i> , 2010, 122, 7741-7745.	2.0	13
142	Au@MnO Nanoflowers: Hybrid Nanocomposites for Selective Dual Functionalization and Imaging. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3976-3980.	13.8	135
143	Reversible Self-Assembly of Metal Chalcogenide/Metal Oxide Nanostructures Based on Pearson Hardness. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7578-7582.	13.8	27
144	Orientation and Dynamics of ZnO Nanorod Liquid Crystals in Electric Fields. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1101-1107.	3.9	38

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145	Synthesis and functionalization of chalcogenide nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2338-2363.	1.5	25
146	Orientation of Polymer Functionalized Nanorods in Thin Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 6845-6849.	0.9	7
147	Light Induced Charging of Polymer Functionalized Nanorods. <i>Nano Letters</i> , 2010, 10, 2812-2816.	9.1	29
148	An efficient acetylation of dextran using in situ activated acetic anhydride with iodine. <i>Journal of the Serbian Chemical Society</i> , 2010, 75, 165-173.	0.8	13
149	Functionalized Magnetic Nanoparticles for Selective Targeting of Cells. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1241, 1.	0.1	0
150	Enzyme-Mediated Deposition of a TiO_2 Coating onto Biofunctionalized WS ₂ Chalcogenide Nanotubes. <i>Advanced Functional Materials</i> , 2009, 19, 285-291.	14.9	52
151	Pathogen-Mimicking MnO Nanoparticles for Selective Activation of the TLR9 Pathway and Imaging of Cancer Cells. <i>Advanced Functional Materials</i> , 2009, 19, 3717-3725.	14.9	54
152	HPMC-Salicylate conjugates as macromolecular prodrugs: Design, characterization, and nanorods formation. <i>Journal of Polymer Science Part A</i> , 2009, 47, 4202-4208.	2.3	14
153	Synthesis and immobilization of molecular switches onto titaniumdioxide nanowires. <i>Polyhedron</i> , 2009, 28, 1728-1733.	2.2	7
154	Synthesis of Hierarchically Grown ZnO@NT-WS ₂ Nanocomposites. <i>Chemistry of Materials</i> , 2009, 21, 5382-5387.	6.7	16
155	Synthesis, Characterization, and Hierarchical Organization of Tungsten Oxide Nanorods: Spreading Driven by Marangoni Flow. <i>Journal of the American Chemical Society</i> , 2009, 131, 17566-17575.	13.7	67
156	Growth of fibrous aggregates of silica nanoparticles: Fibre growth by mimicking the biogenic silica patterning processes. <i>Soft Matter</i> , 2009, 5, 3657.	2.7	4
157	Particle size and morphology control of the negative thermal expansion material cubic zirconium tungstate. <i>Journal of Materials Chemistry</i> , 2009, 19, 2760.	6.7	33
158	1,3-Dimethoxy-2,3-dihydro-1H-isindole-2-carbothioamide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2009, 65, o41-o41.	0.2	3
159	Synthetic Approaches to Functionalized Chalcogenide Nanotubes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008, 634, 2093-2093.	1.2	1
160	dsRNA-Functionalized Multifunctional Fe_2O_3 Nanocrystals: A Tool for Targeting Cell Surface Receptors. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4748-4752.	13.8	48
161	Influence of Binding-Site Density in Wet Bioadhesion. <i>Advanced Materials</i> , 2008, 20, 3872-3876.	21.0	85
162	Multifunctional polymer-derivatized Fe_2O_3 nanocrystals as a methodology for the biomagnetic separation of recombinant His-tagged proteins. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 2339-2344.	2.3	23

#	ARTICLE	IF	CITATIONS
163	Fabrication of a Silica Coating on Magnetic Fe_3O_4 Nanoparticles by an Immobilized Enzyme. <i>Chemistry of Materials</i> , 2008, 20, 3567-3573.	6.7	71
164	Liquid crystalline phases from polymer functionalised semiconducting nanorods. <i>Journal of Materials Chemistry</i> , 2008, 18, 3050.	6.7	69
165	Bioorganic/inorganic hybrid composition of sponge spicules: Matrix of the giant spicules and of the comitalia of the deep sea hexactinellid <i>Monorhaphis</i> . <i>Journal of Structural Biology</i> , 2008, 161, 188-203.	2.8	78
166	The 2'-5'-oligoadenylate synthetase in the lowest metazoa: isolation, cloning, expression and functional activity in the sponge <i>Lubomirskia baicalensis</i> . <i>Molecular Immunology</i> , 2008, 45, 945-953.	2.2	32
167	Functionalized Magnetic Nanoparticles for Selective Targeting of Cells. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1140, 120101.	0.1	0
168	Cell Specific Targeting of Multifunctional Fe_3O_4 Nanoparticles Through Surface Binding of dsDNA. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1032, 1.	0.1	0
169	Superparamagnetic Fe_3O_4 nanoparticles with tailored functionality for protein separation. <i>Chemical Communications</i> , 2007, , 4677.	4.1	63
170	Functional Polymer-Opals from Core-Shell Colloids. <i>Macromolecular Rapid Communications</i> , 2007, 28, 1987-1994.	3.9	32
171	Fractal-related assembly of the axial filament in the demosponge <i>Suberites domuncula</i> : Relevance to biomineralization and the formation of biogenic silica. <i>Biomaterials</i> , 2007, 28, 4501-4511.	11.4	53
172	Hierarchical Assembly of TiO_2 Nanoparticles on WS ₂ Nanotubes Achieved Through Multifunctional Polymeric Ligands. <i>Small</i> , 2007, 3, 829-834.	10.0	46
173	Double-Stranded RNA Polyinosinic-Polycytidylic Acid Immobilized onto Fe_3O_4 Nanoparticles by Using a Multifunctional Polymeric Linker. <i>Small</i> , 2007, 3, 1374-1378.	10.0	45
174	Facile synthesis and characterization of monocrystalline cubic ZrO_2 nanoparticles. <i>Solid State Sciences</i> , 2007, 9, 1105-1109.	3.2	113
175	Enzymatic production of biosilica glass using enzymes from sponges: basic aspects and application in nanobiotechnology (material sciences and medicine). <i>Die Naturwissenschaften</i> , 2007, 94, 339-359.	1.6	81
176	Facile Synthesis and Characterization of Functionalized, Monocrystalline Rutile TiO_2 Nanorods. <i>Langmuir</i> , 2006, 22, 5209-5212.	3.5	112
177	Synthesis and Characterization of Cellulose β -Lipoates: A Novel Material for Adsorption onto Gold. <i>Polymer Bulletin</i> , 2006, 57, 857-863.	3.3	15
178	Reactive Polymers: A Versatile Toolbox for the Immobilization of Functional Molecules on TiO_2 Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 908-912.	13.8	94
179	From Single Molecules to Nanoscopically Structured Functional Materials: Au Nanocrystal Growth on TiO_2 Nanowires Controlled by Surface-Bound Silicatein. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4803-4809.	13.8	74
180	Overcoming the Insolubility of Molybdenum Disulfide Nanoparticles through a High Degree of Sidewall Functionalization Using Polymeric Chelating Ligands. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4809-4815.	13.8	89

#	ARTICLE	IF	CITATIONS
181	From Single Molecules to Nanoscopically Structured Functional Materials. Materials Research Society Symposia Proceedings, 2006, 988, 1.	0.1	0
182	Co-expression and Functional Interaction of Silicatein with Galectin. Journal of Biological Chemistry, 2006, 281, 12001-12009.	3.4	125
183	Formation of layered titania and zirconia catalysed by surface-bound silicatein. Chemical Communications, 2005, , 5533.	4.1	111
184	Monitoring the formation of biosilica catalysed by histidine-tagged silicatein. Chemical Communications, 2004, , 2848-2849.	4.1	92