Muhammad Nawaz Tahir

List of Publications by Year in Descending Order

189 papers	6,159 citations	46 h-index	71 g-index
192 ext. papers	6,895 ext. citations	6.4 avg, IF	5.72 L-index

#	Paper	IF	Citations
189	Advances in Graphene/Inorganic Nanoparticle Composites for Catalytic Applications.. *Chemical Record*, **2022**, e202100274	6.6	2
188	Extract-Mediated Eco-Friendly Preparation of TiO Nanoparticles for Photocatalytic Degradation of Methylene Blue and Methyl Orange.. *ACS Omega*, **2022**, 7, 4812-4820	3.9	5
187	High-throughput synthesis of CeO nanoparticles for transparent nanocomposites repelling Pseudomonas aeruginosa biofilms.. *Scientific Reports*, **2022**, 12, 3935	4.9	2
186	Pyrene Functionalized Highly Reduced Graphene Oxide-palladium Nanocomposite: A Novel Catalyst for the Mizoroki-Heck Reaction in Water.. *Frontiers in Chemistry*, **2022**, 10, 872366	5	0
185	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	4.4	1
184	A High-Performance Asymmetric Supercapacitor Based on Tungsten Oxide Nanoplates and Highly Reduced Graphene Oxide Electrodes. *Chemistry - A European Journal*, **2021**, 27, 6973-6984	4.8	24
183	Non-aqueous synthesis of AuCu@ZnO alloy-semiconductor heteroparticles for photocatalytical degradation of organic dyes. *Journal of Saudi Chemical Society*, **2021**, 25, 101210	4.3	3
182	A Generalized Method for High-Speed Fluorination of Metal Oxides by Spark Plasma Sintering Yields Ta O F and TaO F with High Photocatalytic Activity for Oxygen Evolution from Water. *Advanced Materials*, **2021**, 33, e2007434	24	10
181	Esterification of Salicylic acid with Succinylated Dextran Using ZrOCl2.8H2O over MCM-41: A Novel Strategy to Design Polysaccharide-Based Macromolecular Prodrugs. *Arabian Journal for Science and Engineering*, **2021**, 46, 5583-5591	2.5	
180	High-speed solid state fluorination of NbO yields NbOF and NbOF with photocatalytic activity for oxygen evolution from water. *Dalton Transactions*, **2021**, 50, 6528-6538	4.3	1
179	Synthesis of hierarchically organized □Fe2O3 nanostructures for the photocatalytic degradation of methylene blue. *Emergent Materials*, **2020**, 3, 605-612	3.5	6
178	Design, characterization and enhanced bioavailability of hydroxypropylcellulose-naproxen conjugates. *Arabian Journal of Chemistry*, **2020**, 13, 5717-5723	5.9	1
177	Efficient aerial oxidation of different types of alcohols using ZnO nanoparticle□MnCO3-graphene oxide composites. *Applied Organometallic Chemistry*, **2020**, 34, e5718	3.1	11
176	One-pot synthesis, crystal structure and antimicrobial activity of 6-benzyl-11-(p-tolyl)-6H-indolo[2,3-b]quinoline. *Journal of Molecular Structure*, **2020**, 1210, 128035	3.4	4
175	Hydroxypropylcellulose-flurbiprofen conjugates: design, characterization, anti-inflammatory activity and enhanced bioavailability. *Saudi Pharmaceutical Journal*, **2020**, 28, 869-875	4.4	2
174	Solid State Fluorination on the Minute Scale: Synthesis of WO3□Fx with Photocatalytic Activity. *Advanced Functional Materials*, **2020**, 30, 1909051	15.6	8
173	Enhanced Antimicrobial Activity of Biofunctionalized Zirconia Nanoparticles. *ACS Omega*, **2020**, 5, 1987-1996	3.9	34

172	Facile Sonochemical Preparation of Au-ZrO2 Nanocatalyst for the Catalytic Reduction of 4-Nitrophenol. *Applied Sciences (Switzerland)*, **2020**, 10, 503	2.6	5
171	COVID-19: A Global Challenge with Old History, Epidemiology and Progress So Far. *Molecules*, **2020**, 26,	4.8	94
170	Functional Enzyme Mimics for Oxidative Halogenation Reactions that Combat Biofilm Formation. *Nanostructure Science and Technology*, **2020**, 195-278	0.9	4
169	Hematite and Magnetite Nanostructures for Green and Sustainable Energy Harnessing and Environmental Pollution Control: A Review. *Chemical Research in Toxicology*, **2020**, 33, 1292-1311	4	59
168	Facile synthesis of Pd@graphene nanocomposites with enhanced catalytic activity towards Suzuki coupling reaction. *Scientific Reports*, **2020**, 10, 11728	4.9	12
167	Selective Synthesis of Monodisperse CoO Nanooctahedra as Catalysts for Electrochemical Water Oxidation. *Langmuir*, **2020**, 36, 13804-13816	4	7
166	Synthesis of Au, Ag, and Au-Ag Bimetallic Nanoparticles Using Extract and Their Catalytic Activity for the Reduction of 4-Nitrophenol. *Nanomaterials*, **2020**, 10,	5.4	26
165	Capparis decidua Edgew (Forssk.): A comprehensive review of its traditional uses, phytochemistry, pharmacology and nutrapharmaceutical potential. *Arabian Journal of Chemistry*, **2020**, 13, 1901-1916	5.9	16
164	Flurbiprofen conjugates based on hydroxyethylcellulose: Synthesis, characterization, pharmaceutical and pharmacological applications. *Arabian Journal of Chemistry*, **2020**, 13, 2101-2109	5.9	2
163	Sodium hyroxyethylcellulose adipate: An efficient and reusable sorbent for cadmium uptake from spiked high-hardness ground water. *Arabian Journal of Chemistry*, **2020**, 13, 2766-2777	5.9	2
162	A Facile Synthesis of ZrOx-MnCO3/Graphene Oxide (GRO) Nanocomposites for the Oxidation of Alcohols using Molecular Oxygen under Base Free Conditions. *Catalysts*, **2019**, 9, 759	4	9
161	Solvothermal Preparation and Electrochemical Characterization of Cubic ZrO Nanoparticles/Highly Reduced Graphene (HRG) based Nanocomposites. *Materials*, **2019**, 12,	3.5	15
160	Quince Seed Mucilage: A Stimuli-Responsive/Smart Biopolymer. *Polymers and Polymeric Composites*, **2019**, 127-148	0.6	4
159	Methyl-substituted 2-aminothiazole based cobalt(II) and silver(I) complexes:synthesis, X-ray structures, and biological activities. *Turkish Journal of Chemistry*, **2019**, 43, 857-868	1	14
158	Quince Seed Mucilage: A Stimuli-Responsive/Smart Biopolymer. *Polymers and Polymeric Composites*, **2019**, 1-22	0.6	0
157	Synthesis, antibacterial activity and docking studies of chloroacetamide derivatives. *European Journal of Chemistry*, **2019**, 10, 358-366	0.6	4
156	A Step into the Future: Applications of Nanoparticle Enzyme Mimics. *Chemistry - A European Journal* , **2018**, 24, 9703-9713	4.8	53
155	Monitoring Thiol-Ligand Exchange on Au Nanoparticle Surfaces. *Langmuir*, **2018**, 34, 1700-1710	4	21

154	Frontispiece: A Step into the Future: Applications of Nanoparticle Enzyme Mimics. *Chemistry - A European Journal*, **2018**, 24,	4.8	1
153	Iron Oxide Superparticles with Enhanced MRI Performance by Solution Phase Epitaxial Growth. *Chemistry of Materials*, **2018**, 30, 4277-4288	9.6	9
152	Plant extracts as green reductants for the synthesis of silver nanoparticles: lessons from chemical synthesis. *Dalton Transactions*, **2018**, 47, 11988-12010	4.3	66
151	Functional Enzyme Mimics for Oxidative Halogenation Reactions that Combat Biofilm Formation. *Advanced Materials*, **2018**, 30, e1707073	24	39
150	From Single Molecules to Nanostructured Functional Materials: Formation of a Magnetic Foam Catalyzed by xO Heterodimers. *ACS Applied Nano Materials*, **2018**, 1, 1050-1057	5.6	3
149	The surface chemistry of iron oxide nanocrystals: surface reduction of Fe2O3 to Fe3O4 by redox-active catechol surface ligands. *Journal of Materials Chemistry C*, **2018**, 6, 326-333	7.1	14
148	Controlling the Morphology of Au-Pd Heterodimer Nanoparticles by Surface Ligands. *Inorganic Chemistry*, **2018**, 57, 13640-13652	5.1	7
147	Bio-nano: Theranostic at Cellular Level. *AAPS Advances in the Pharmaceutical Sciences Series*, **2018**, 85-170	0.5	1
146	Solvothermal Synthesis of Molybdenum Tungsten Oxides and Their Application for Photoelectrochemical Water Splitting. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 12641-12649	8.3	9
145	CeO nanorods with intrinsic urease-like activity. *Nanoscale*, **2018**, 10, 13074-13082	7.7	36
144	Glycine-functionalized copper(ii) hydroxide nanoparticles with high intrinsic superoxide dismutase activity. *Nanoscale*, **2017**, 9, 3952-3960	7.7	45
143	Surface Defects as a Tool to Solubilize and Functionalize WS2 Nanotubes. *European Journal of Inorganic Chemistry*, **2017**, 2017, 2190-2194	2.3	6
142	Benzyl Alcohol Assisted Synthesis and Characterization of Highly Reduced Graphene Oxide (HRG)@ZrO2 Nanocomposites. *ChemistrySelect*, **2017**, 2, 3078-3083	1.8	6
141	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	7.9	29
140	Synthesis and Comparative Catalytic Study of Zirconia-MnCO or -MnO for the Oxidation of Benzylic Alcohols. *ChemistryOpen*, **2017**, 6, 112-120	2.3	9
139	2O3 Superparticles with Enhanced Peroxidase Activity by Solution Phase Epitaxial Growth. *Chemistry of Materials*, **2017**, 29, 1134-1146	9.6	49
138	Block copolymers from ionic liquids for the preparation of thin carbonaceous shells. *Beilstein Journal of Organic Chemistry*, **2017**, 13, 1693-1701	2.5	2
137	A highly reduced graphene oxide/ZrOx MnCO3 or Mn2O3 nanocomposite as an efficient catalyst for selective aerial oxidation of benzylic alcohols. *RSC Advances*, **2017**, 7, 55336-55349	3.7	23

136	Fabrication, characterization, thermal stability and nanoassemblies of novel pullulan-aspirin conjugates. *Arabian Journal of Chemistry*, **2017**, 10, S1597-S1603	5.9	17
135	Plant Extract Mediated Eco-Friendly Synthesis of Pd@Graphene Nanocatalyst: An Efficient and Reusable Catalyst for the Suzuki-Miyaura Coupling. *Catalysts*, **2017**, 7, 20	4	18
134	Calixarene: A Versatile Material for Drug Design and Applications. *Current Pharmaceutical Design*, **2017**, 23, 2377-2388	3.3	26
133	Janus and patchy nanoparticles: general discussion. *Faraday Discussions*, **2016**, 191, 117-139	3.6	3
132	Intrinsic superoxide dismutase activity of MnO nanoparticles enhances the magnetic resonance imaging contrast. *Journal of Materials Chemistry B*, **2016**, 4, 7423-7428	7.3	54
131	Solids Go Bio: Inorganic Nanoparticles as Enzyme Mimics. *European Journal of Inorganic Chemistry*, **2016**, 2016, 1906-1915	2.3	132
130	Facile hybridization of Ni@Fe2O3 superparticles with functionalized reduced graphene oxide and its application as anode material in lithium-ion batteries. *Journal of Colloid and Interface Science*, **2016**, 478, 155-63	9.3	14
129	Advances in biogenic synthesis of palladium nanoparticles. *RSC Advances*, **2016**, 6, 60277-60286	3.7	29
128	Hierachical Ni@Fe2O3 superparticles through epitaxial growth of □Fe2O3 nanorods on in situ formed Ni nanoplates. *Nanoscale*, **2016**, 8, 9548-55	7.7	18
127	Facile one-pot synthesis of polytypic (wurtzite□halcopyrite) CuGaS2. *Applied Physics A: Materials Science and Processing*, **2016**, 122, 1	2.6	6
126	Green synthesis of Pd@graphene nanocomposite: Catalyst for the selective oxidation of alcohols. *Arabian Journal of Chemistry*, **2016**, 9, 835-845	5.9	41
125	Synthesis and characterization of carbon coated sponge-like tin oxide (SnOx) films and their application as electrode materials in lithium-ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 612-619	13	31
124	Extended release and enhanced bioavailability of moxifloxacin conjugated with hydrophilic cellulose ethers. *Carbohydrate Polymers*, **2016**, 136, 1297-306	10.3	19
123	Extraordinary Performance of Carbon-Coated Anatase TiO as Sodium-Ion Anode. *Advanced Energy Materials*, **2016**, 6, 1501489	21.8	174
122	Structural analysis of Gossypium hirsutum fibers grown under greenhouse and hydroponic conditions. *Journal of Structural Biology*, **2016**, 194, 292-302	3.4	7
121	Anisotropic nanoparticles: general discussion. *Faraday Discussions*, **2016**, 191, 229-254	3.6	5
120	Ultrastrong composites from dopamine modified-polymer-infiltrated colloidal crystals. *Materials Horizons*, **2015**, 2, 434-441	14.4	6
119	One-pot thermolysis synthesis of CuInS2 nanoparticles with chalcopyrite-wurtzite polytypism structure. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 8960-8972	2.1	8

118	Pulicaria glutinosa extract: a toolbox to synthesize highly reduced graphene oxide-silver nanocomposites. *International Journal of Molecular Sciences*, **2015**, 16, 1131-42	6.3	46
117	Succinate-bonded pullulan: An efficient and reusable super-sorbent for cadmium-uptake from spiked high-hardness groundwater. *Journal of Environmental Sciences*, **2015**, 37, 51-8	6.4	9
116	Synthesis, biological evaluation and molecular docking of N-phenyl thiosemicarbazones as urease inhibitors. *Bioorganic Chemistry*, **2015**, 61, 51-7	5.1	47
115	Green Approach for the Effective Reduction of Graphene Oxide Using Salvadora persica L. Root (Miswak) Extract. *Nanoscale Research Letters*, **2015**, 10, 987	5	105
114	Multiple cross-linked hydroxypropylcellulose succinate salicylate: prodrug design, characterization, stimuli responsive swelling deswelling and sustained drug release. *RSC Advances*, **2015**, 5, 43440-43448	3.7	11
113	Genotoxic effects of zinc oxide nanoparticles. *Nanoscale*, **2015**, 7, 8931-8	7.7	72
112	Novel high-loaded, nanoparticulate and thermally stable macromolecular prodrug design of NSAIDs based on hydroxypropylcellulose. *Cellulose*, **2015**, 22, 461-471	5.5	16
111	Cellulose ether derivatives: a new platform for prodrug formation of fluoroquinolone antibiotics. *Cellulose*, **2015**, 22, 2011-2022	5.5	27
110	High-performance TiO2 nanoparticle/DOPA-polymer composites. *Macromolecular Rapid Communications*, **2015**, 36, 1129-37	4.8	12
109	Structural and optical properties of Fe and Zn substituted CuInS2 nanoparticles synthesized by a one-pot facile method. *Journal of Materials Chemistry C*, **2015**, 3, 889-898	7.1	13
108	Potential biological role of laccase from the sponge Suberites domuncula as an antibacterial defense component. *Biochimica Et Biophysica Acta - General Subjects*, **2015**, 1850, 118-28	4	21
107	Synthesis of Mesoporous Supraparticles on Superamphiphobic Surfaces. *Advanced Materials*, **2015**, 27, 7338-43	24	70
106	Hydroxypropylcellulose as a novel green reservoir for the synthesis, stabilization, and storage of silver nanoparticles. *International Journal of Nanomedicine*, **2015**, 10, 2079-88	7.3	13
105	Vanadia supported on nickel manganese oxide nanocatalysts for the catalytic oxidation of aromatic alcohols. *Nanoscale Research Letters*, **2015**, 10, 52	5	16
104	Humidity-sensing and DNA-binding ability of bis(4-benzylpiperazine-1-carbodithioato-k2 S,S?)nickel(II). *Journal of Coordination Chemistry*, **2015**, 68, 295-307	1.6	9
103	Graphene based metal and metal oxide nanocomposites: synthesis, properties and their applications. *Journal of Materials Chemistry A*, **2015**, 3, 18753-18808	13	446
102	Carbon-Coated Anatase TiO2Nanotubes for Li- and Na-Ion Anodes. *Journal of the Electrochemical Society*, **2015**, 162, A3013-A3020	3.9	71
101	Amine functionalized ZrO nanoparticles as biocompatible and luminescent probes for ligand specific cellular imaging. *Journal of Materials Chemistry B*, **2015**, 3, 2371-2377	7.3	11

100	Precursor polymers for the carbon coating of Au@ZnO multipods for application as active material in lithium-ion batteries. *Macromolecular Rapid Communications*, **2015**, 36, 1075-82	4.8	27
99	Silica-coated Au@ZnO Janus particles and their stability in epithelial cells. *Journal of Materials Chemistry B*, **2015**, 3, 1813-1822	7.3	15
98	Rational assembly and dual functionalization of Au@MnO heteroparticles on TiO2 nanowires. *New Journal of Chemistry*, **2014**, 38, 2031-2036	3.6	1
97	Molybdenum trioxide nanoparticles with intrinsic sulfite oxidase activity. *ACS Nano*, **2014**, 8, 5182-9	16.7	101
96	Fabrication of single cylindrical Au-coated nanopores with non-homogeneous fixed charge distribution exhibiting high current rectifications. *ACS Applied Materials & Interfaces*, **2014**, 6, 12486-94	9.5	47
95	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	3.7	59
94	Structural and Optical Study of Ga3+ Substitution in CuInS2 Nanoparticles Synthesized by a One-Pot Facile Method. *Journal of Physical Chemistry C*, **2014**, 118, 24670-24679	3.8	27
93	Stabilizing nanostructured lithium insertion materials via organic hybridization: A step forward towards high-power batteries. *Journal of Power Sources*, **2014**, 248, 852-860	8.9	14
92	Facile hydrothermal synthesis of crystalline Ta2O5 nanorods, MTaO3 (M = H, Na, K, Rb) nanoparticles, and their photocatalytic behaviour. *Journal of Materials Chemistry A*, **2014**, 2, 8033-8040	13	29
91	Biogenic synthesis of palladium nanoparticles using Pulicaria glutinosa extract and their catalytic activity towards the Suzuki coupling reaction. *Dalton Transactions*, **2014**, 43, 9026-31	4.3	128
90	Localization and characterization of ferritin in Demospongiae: a possible role on spiculogenesis. *Marine Drugs*, **2014**, 12, 4659-76	6	4
89	Growth Mechanism and Surface Functionalization of Metal Chalcogenides Nanostructures **2014**, 83-121		1
88	Synthesis, characterization, crystal structures, enzyme inhibition, DNA binding, and electrochemical studies of zinc(II) complexes. *Journal of Coordination Chemistry*, **2014**, 67, 1290-1308	1.6	13
87	Functionalization of TiO2 Nanoparticles with Semiconducting Polymers Containing a Photocleavable Anchor Group and Separation via Irradiation Afterward. *Macromolecular Chemistry and Physics*, **2014**, 215, 604-613	2.6	10
86	One pot light assisted green synthesis, storage and antimicrobial activity of dextran stabilized silver nanoparticles. *Journal of Nanobiotechnology*, **2014**, 12, 53	9.4	20
85	Controlled synthesis of linear and branched Au@ZnO hybrid nanocrystals and their photocatalytic properties. *Nanoscale*, **2013**, 5, 9944-9	7.7	97
84	Plasmon-enhanced photocurrent in quasi-solid-state dye-sensitized solar cells by the inclusion of gold/silica core□shell nanoparticles in a TiO2 photoanode. *Journal of Materials Chemistry A*, **2013**, 1, 12627	13	24
83	Translational and rotational diffusion of gold nanorods near a wall. *Journal of Chemical Physics*, **2013**, 139, 064710	3.9	10

82	Polyacrylonitrile block copolymers for the preparation of a thin carbon coating around TiO2 nanorods for advanced lithium-ion batteries. *Macromolecular Rapid Communications*, **2013**, 34, 1693-700	4.8	28
81	Self-cleaning antimicrobial surfaces by bio-enabled growth of SnO2 coatings on glass. *Nanoscale*, **2013**, 5, 3447-56	7.7	26
80	Graphene-type sheets of Nb(1-x)W(x)S2: synthesis and in situ functionalization. *Dalton Transactions*, **2013**, 42, 5292-7	4.3	5
79	Silicatein conjugation inside nanoconfined geometries through immobilized NTA-Ni(II) chelates. *Chemical Communications*, **2013**, 49, 2210-2	5.8	22
78	Low temperature synthesis of monodisperse nanoscaled ZrO2 with a large specific surface area. *Dalton Transactions*, **2013**, 42, 432-40	4.3	17
77	Highly water-soluble magnetic iron oxide (FeO) nanoparticles for drug delivery: enhanced in vitro therapeutic efficacy of doxorubicin and MION conjugates. *Journal of Materials Chemistry B*, **2013**, 1, 2874-2884	7.3	80
76	Hydroxypropylcellulose-aceclofenac conjugates: high covalent loading design, structure characterization, nano-assemblies and thermal kinetics. *Cellulose*, **2013**, 20, 717-725	5.5	11
75	Green synthesis of silver nanoparticles mediated by Pulicaria glutinosa extract. *International Journal of Nanomedicine*, **2013**, 8, 1507-16	7.3	117
74	Gold-surface binding of molecular switches studied by Mössbauer spectroscopy **2013**, 211-215		
73	Bioinspired synthesis of multifunctional inorganic and bio-organic hybrid materials. *FEBS Journal*, **2012**, 279, 1737-49	5.7	35
72	Ni@Fe□□ heterodimers: controlled synthesis and magnetically recyclable catalytic application for dehalogenation reactions. *Nanoscale*, **2012**, 4, 4571-7	7.7	17
71	Multi-photon imaging of amine-functionalized silica nanoparticles. *Nanoscale*, **2012**, 4, 4680-6	7.7	4
70	CpG-DNA loaded multifunctional MnO nanoshuttles for TLR9-specific cellular cargo delivery, selective immune-activation and MRI. *Journal of Materials Chemistry*, **2012**, 22, 8826		14
69	Gold-surface binding of molecular switches studied by Mössbauer spectroscopy. *Hyperfine Interactions*, **2012**, 205, 63-67	0.8	1
68	Chemical mimicry: hierarchical 1D TiO2@ZrO2 core-shell structures reminiscent of sponge spicules by the synergistic effect of silicatein-□and silintaphin-1. *Langmuir*, **2011**, 27, 5464-71	4	13
67	Hydrogen peroxide sensing with horseradish peroxidase-modified polymer single conical nanochannels. *Analytical Chemistry*, **2011**, 83, 1673-80	7.8	151
66	Metal ion affinity-based biomolecular recognition and conjugation inside synthetic polymer nanopores modified with iron-terpyridine complexes. *Journal of the American Chemical Society*, **2011**, 133, 17307-14	16.4	111
65	Biomolecular conjugation inside synthetic polymer nanopores via glycoprotein-lectin interactions. *Nanoscale*, **2011**, 3, 1894-903	7.7	69

64	Phase separated Cu@Fe3O4 heterodimer nanoparticles from organometallic reactants. *Journal of Materials Chemistry*, **2011**, 21, 8605		42
63	Hydrogen peroxide sensors for cellular imaging based on horse radish peroxidase reconstituted on polymer-functionalized TiO₂ nanorods. *Nanoscale*, **2011**, 3, 3907-14	7.7	26
62	Synthesis, characterization and functionalization of nearly mono-disperse copper ferrite CuxFe3−xO4 nanoparticles. *Journal of Materials Chemistry*, **2011**, 21, 6909		20
61	Macromolecular prodrugs of aspirin with HPMC: A nano particulate drug design, characterization, and pharmacokinetic studies. *Macromolecular Research*, **2011**, 19, 1296-1302	1.9	12
60	Molecular Camouflage: Making Use of Protecting Groups To Control the Self-Assembly of Inorganic Janus Particles onto Metal Chalcogenide Nanotubes by Pearson Hardness. *Angewandte Chemie*, **2011**, 123, 12479-12483	3.6	7
59	Molecular camouflage: making use of protecting groups to control the self-assembly of inorganic Janus particles onto metal-chalcogenide nanotubes by Pearson hardness. *Angewandte Chemie - International Edition*, **2011**, 50, 12271-5	16.4	26
58	Controlling phase formation in solids: rational synthesis of phase separated Co@Fe2O3 heteroparticles and CoFe2O4 nanoparticles. *Chemical Communications*, **2011**, 47, 8898-900	5.8	21
57	From Single Molecules to Nanoscopically Structured Materials: Self-Assembly of Metal Chalcogenide/Metal Oxide Nanostructures Based on the Degree of Pearson Hardness. *Chemistry of Materials*, **2011**, 23, 3534-3539	9.6	19
56	Enzymatic Synthesis and Surface Deposition of Tin Dioxide using Silicatein- *Chemistry of Materials*, **2011**, 23, 5358-5365	9.6	27
55	Soluble IF-ReS2 nanoparticles by surface functionalization with terpyridine ligands. *Langmuir*, **2011**, 27, 385-91	4	13
54	Engineered multifunctional nanotools for biological applications. *Methods in Molecular Biology*, **2011**, 790, 203-14	1.4	0
53	Fabrication of potential macromolecular prodrugs of aspirin and diclofenac with dextran. *Pakistan Journal of Pharmaceutical Sciences*, **2011**, 24, 575-81	0.4	4
52	Orientation of polymer functionalized nanorods in thin films. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 6845-9	1.3	6
51	Light induced charging of polymer functionalized nanorods. *Nano Letters*, **2010**, 10, 2812-6	11.5	28
50	Highly soluble multifunctional MnO nanoparticles for simultaneous optical and MRI imaging and cancer treatment using photodynamic therapy. *Journal of Materials Chemistry*, **2010**, 20, 8297		73
49	An efficient esterification of pullulan using carboxylic acid anhydrides activated with iodine. *Collection of Czechoslovak Chemical Communications*, **2010**, 75, 133-143		7
48	IF-ReS2 with Covalently Linked Porphyrin Antennae. *Israel Journal of Chemistry*, **2010**, 50, 500-505	3.4	12
47	Silicatein-mediated incorporation of titanium into spicules from the demosponge Suberites domuncula. *Cell and Tissue Research*, **2010**, 339, 429-36	4.2	16

46	Reversible Selbstorganisation von Metallchalkogenid-Metalloxid- Nanostrukturen basierend auf dem Pearson-Konzept. *Angewandte Chemie*, **2010**, 122, 7741-7745	3.6	13
45	Au@MnO nanoflowers: hybrid nanocomposites for selective dual functionalization and imaging. *Angewandte Chemie - International Edition*, **2010**, 49, 3976-80	16.4	128
44	Reversible self-assembly of metal chalcogenide/metal oxide nanostructures based on Pearson hardness. *Angewandte Chemie - International Edition*, **2010**, 49, 7578-82	16.4	26
43	Orientation and Dynamics of ZnO Nanorod Liquid Crystals in Electric Fields. *Macromolecular Rapid Communications*, **2010**, 31, 1101-7	4.8	34
42	Synthesis and functionalization of chalcogenide nanotubes. *Physica Status Solidi (B): Basic Research*, **2010**, 247, 2338-2363	1.3	22
41	An efficient acetylation of dextran using in situ activated acetic anhydride with iodine. *Journal of the Serbian Chemical Society*, **2010**, 75, 165-173	0.9	12
40	Functionalized Magnetic Nanoparticles for Selective Targeting of Cells. *Materials Research Society Symposia Proceedings*, **2009**, 1241, 1		
39	Enzyme-Mediated Deposition of a TiO2 Coating onto Biofunctionalized WS2 Chalcogenide Nanotubes. *Advanced Functional Materials*, **2009**, 19, 285-291	15.6	48
38	Pathogen-Mimicking MnO Nanoparticles for Selective Activation of the TLR9 Pathway and Imaging of Cancer Cells. *Advanced Functional Materials*, **2009**, 19, 3717-3725	15.6	51
37	HPMC-salicylate conjugates as macromolecular prodrugs: Design, characterization, and nano-rods formation. *Journal of Polymer Science Part A*, **2009**, 47, 4202-4208	2.5	11
36	Synthesis and immobilization of molecular switches onto titaniumdioxide nanowires. *Polyhedron*, **2009**, 28, 1728-1733	2.7	7
35	Synthesis of Hierarchically Grown ZnO@NT-WS2 Nanocomposites. *Chemistry of Materials*, **2009**, 21, 5382-5387	9.6	14
34	Synthesis, characterization, and hierarchical organization of tungsten oxide nanorods: spreading driven by Marangoni flow. *Journal of the American Chemical Society*, **2009**, 131, 17566-75	16.4	66
33	Growth of fibrous aggregates of silica nanoparticles: Fibre growth by mimicking the biogenic silica patterning processes. *Soft Matter*, **2009**, 5, 3657	3.6	4
32	Particle size and morphology control of the negative thermal expansion material cubic zirconium tungstate. *Journal of Materials Chemistry*, **2009**, 19, 2760		33
31	1,3-Dimeth-oxy-2,3-dihydro-1H-isoindole-2-carbothio-amide. *Acta Crystallographica Section E: Structure Reports Online*, **2008**, 65, o41		3
30	Fabrication of a Silica Coating on Magnetic □Fe2O3 Nanoparticles by an Immobilized Enzyme. *Chemistry of Materials*, **2008**, 20, 3567-3573	9.6	69
29	Liquid crystalline phases from polymer functionalised semiconducting nanorods. *Journal of Materials Chemistry*, **2008**, 18, 3050		67

28	Bioorganic/inorganic hybrid composition of sponge spicules: matrix of the giant spicules and of the comitalia of the deep sea hexactinellid Monorhaphis. *Journal of Structural Biology*, **2008**, 161, 188-203	3.4	68
27	The 2P5Poligoadenylate synthetase in the lowest metazoa: isolation, cloning, expression and functional activity in the sponge Lubomirskia baicalensis. *Molecular Immunology*, **2008**, 45, 945-53	4.3	29
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