Joachim Loo

List of Publications by Year in Descending Order

211 papers	12,260 citations	59 h-index	104 g-index
215 ext. papers	13,410 ext. citations	7.5 avg, IF	6.35 L-index

#	Paper	IF	Citations
211	Potential Probiotic Strains From Milk and Water Kefir Grains in Singapore-Use for Defense Against Enteric Bacterial Pathogens.. *Frontiers in Microbiology*, **2022**, 13, 857720	5.7	2
210	In situ alginate crosslinking during spray-drying of lactobacilli probiotics promotes gastrointestinal-targeted delivery.. *Carbohydrate Polymers*, **2022**, 286, 119279	10.3	1
209	Association of nanoparticle exposure with serum metabolic disorders of healthy adults in printing centers.. *Journal of Hazardous Materials*, **2022**, 432, 128710	12.8	2
208	Liquorilactobacillus satsumensis from water kefir yields β-glucan polysaccharides with prebiotic and synbiotic qualities.. *Carbohydrate Polymers*, **2022**, 290, 119515	10.3	0
207	IAEA Contribution to Nanosized Targeted Radiopharmaceuticals for Drug Delivery. *Pharmaceutics*, **2022**, 14, 1060	6.4	1
206	Focused targeting of inhaled magnetic aerosols in reconstructed in vitro airway models. *Journal of Biomechanics*, **2021**, 118, 110279	2.9	4
205	Lipid-Polymer Hybrid Nanoparticles Enhance the Potency of Ampicillin against in a Protozoa Infection Model. *ACS Infectious Diseases*, **2021**, 7, 1607-1618	5.5	4
204	Formulation Development of a Food-Graded Curcumin-Loaded Medium Chain Triglycerides-Encapsulated Kappa Carrageenan (CUR-MCT-KC) Gel Bead Based Oral Delivery Formulation. *Materials*, **2021**, 14,	3.5	3
203	Intelligent Nanoparticle-Based Dressings for Bacterial Wound Infections. *ACS Applied Bio Materials*, **2021**, 4, 3849-3862	4.1	9
202	Effects of ingested nanocellulose and nanochitosan materials on carbohydrate digestion and absorption in an in vitro small intestinal epithelium model. *Environmental Science: Nano*, **2021**, 8, 2554-2568	7.1	1
201	Valorizing okara waste into nutritionally rich polysaccharide/protein-extracts for co-encapsulation of β-carotene and ferrous sulphate as a potential approach to tackle micronutrient malnutrition.. *Journal of Functional Foods*, **2021**, 87, 104749	5.1	1
200	Convection and the Extracellular Matrix Dictate Inter- and Intra-Biofilm Quorum Sensing Communication in Environmental Systems. *Environmental Science & Technology*, **2020**, 54, 6730-6740	10.3	6
199	Synthesis of Polymeric Janus Superstructures via a Facile Synthesis Method. *Macromolecular Rapid Communications*, **2020**, 41, e2000140	4.8	2
198	Therapeutic lipid-coated hybrid nanoparticles against bacterial infections.. *RSC Advances*, **2020**, 10, 8497-8517	3.7	8
197	Nanophotonics based label free detection mechanism for real-time monitoring of interleukin-6. *Nanoscale*, **2020**, 12, 9194-9207	7.7	5
196	An experimental and theoretical approach to investigate correlation between electromagnetic properties of doped ferrites & its interfacial reactivity with dopamine. *Applied Surface Science*, **2020**, 506, 144945	6.7	0
195	Physicochemical and Morphological Transformations of Chitosan Nanoparticles across the Gastrointestinal Tract and Cellular Toxicity in an In Vitro Model of the Small Intestinal Epithelium. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 358-368	5.7	16

194	Divalent cations are antagonistic to survivability of freeze-dried probiotics encapsulated in cross-linked alginate. *Food and Bioproducts Processing*, **2020**, 124, 369-377	4.9	5
193	Prospects of kefiran as a food-derived biopolymer for agri-food and biomedical applications.. *RSC Advances*, **2020**, 10, 25339-25351	3.7	14
192	A high-throughput method to characterize the gut bacteria growth upon engineered nanomaterial treatment. *Environmental Science: Nano*, **2020**, 7, 3155-3166	7.1	1
191	Developing Nano-Delivery Systems for Agriculture and Food Applications with Nature-Derived Polymers. *IScience*, **2020**, 23, 101055	6.1	54
190	Toxicological effects of ingested nanocellulose in in vitro intestinal epithelium and in vivo rat models. *Environmental Science: Nano*, **2019**, 6, 2105-2115	7.1	57
189	Biofilm-Templated Heteroatom-Doped Carbon-Palladium Nanocomposite Catalyst for Hexavalent Chromium Reduction. *ACS Applied Materials & Interfaces*, **2019**, 11, 24018-24026	9.5	22
188	Local release of rapamycin by microparticles delays islet rejection within the anterior chamber of the eye. *Scientific Reports*, **2019**, 9, 3918	4.9	18
187	Small-Intestine-Specific Delivery of Antidiabetic Extracts from Using Polysaccharide-Based Enteric-Coated Nanoparticles. *ACS Omega*, **2019**, 4, 12049-12057	3.9	18
186	Active pulmonary targeting against tuberculosis (TB) via triple-encapsulation of Q203, bedaquiline and superparamagnetic iron oxides (SPIOs) in nanoparticle aggregates. *Drug Delivery*, **2019**, 26, 1039-1048	7	9
185	Hybrid Janus Microparticles Achieving Selective Encapsulation for Theranostic Applications via a Facile Solvent Emulsion Method. *Macromolecular Rapid Communications*, **2019**, 40, e1800801	4.8	15
184	Synergistic Effect of Porosity and Gradient Doping in Efficient Solar Water Oxidation of Catalyst-Free Gradient Mo:BiVO. *ACS Omega*, **2018**, 3, 2724-2734	3.9	13
183	Targeted Gastrointestinal Delivery of Nutraceuticals with Polysaccharide-Based Coatings. *Macromolecular Bioscience*, **2018**, 18, e1700363	5.5	12
182	A programmable lipid-polymer hybrid nanoparticle system for localized, sustained antibiotic delivery to Gram-positive and Gram-negative bacterial biofilms. *Nanoscale Horizons*, **2018**, 3, 305-311	10.8	18
181	Operando Investigation of Mn3O4+□Co-catalyst on Fe2O3 Photoanode: Manganese-Valency-Determined Enhancement at Varied Potentials. *ACS Applied Energy Materials*, **2018**, 1, 814-821	6.1	18
180	Understanding Fundamentals and Reaction Mechanisms of Electrode Materials for Na-Ion Batteries. *Small*, **2018**, 14, e1703338	11	69
179	Mechanistic formation of drug-encapsulated Janus particles through emulsion solvent evaporation.. *RSC Advances*, **2018**, 8, 16032-16042	3.7	12
178	Hollow Microparticles as a Superior Delivery System over Solid Microparticles for the Encapsulation of Peptides. *Pharmaceutical Research*, **2018**, 35, 185	4.5	6
177	Improved Bioavailability of Levodopa Using Floatable Spray-Coated Microcapsules for the Management of Parkinson© Disease. *NeuroMolecular Medicine*, **2018**, 20, 262-270	4.6	10

176	Multidrug-eluting bi-layered microparticle-mesh scaffolds for musculoskeletal tissue regeneration. *Journal of Materials Chemistry B*, **2018**, 6, 3340-3347	7.3	4
175	Reducing Intestinal Digestion and Absorption of Fat Using a Nature-Derived Biopolymer: Interference of Triglyceride Hydrolysis by Nanocellulose. *ACS Nano*, **2018**, 12, 6469-6479	16.7	99
174	Macromol. Biosci. 4/2018. *Macromolecular Bioscience*, **2018**, 18, 1870010	5.5	
173	Sustained-release of naproxen sodium from electrospun-aligned PLLA-PCL scaffolds. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 1011-1021	4.4	11
172	A graphene/carbon nanotube biofilm based solar-microbial fuel device for enhanced hydrogen generation. *Sustainable Energy and Fuels*, **2017**, 1, 191-198	5.8	20
171	Preservation of Anticancer and Immunosuppressive Properties of Rapamycin Achieved Through Controlled Releasing Particles. *AAPS PharmSciTech*, **2017**, 18, 2648-2657	3.9	9
170	Living and Conducting: Coating Individual Bacterial Cells with In Situ Formed Polypyrrole. *Angewandte Chemie - International Edition*, **2017**, 56, 10516-10520	16.4	146
169	Phosphate tuned copper electrodeposition and promoted formic acid selectivity for carbon dioxide reduction. *Journal of Materials Chemistry A*, **2017**, 5, 11905-11916	13	29
168	Rapid purification of sub-micrometer particles for enhanced drug release and microvesicles isolation. *NPG Asia Materials*, **2017**, 9, e434-e434	10.3	28
167	Sustained releasing sponge-like 3D scaffolds for bone tissue engineering applications. *Biomedical Materials (Bristol)*, **2017**, 13, 015019	3.5	7
166	Recent advances in complementary and replacement therapy with nutraceuticals in combating gastrointestinal illnesses. *Clinical Nutrition*, **2017**, 36, 968-979	5.9	16
165	Osmogen-Mediated One-Step Technique of Fabricating Hollow Microparticles for Encapsulation and Delivery of Bioactive Molecules. *Macromolecular Bioscience*, **2017**, 17, 1600328	5.5	5
164	Controlled-release nanoencapsulating microcapsules to combat inflammatory diseases. *Drug Design, Development and Therapy*, **2017**, 11, 1707-1717	4.4	17
163	Sustained-releasing hollow microparticles with dual-anticancer drugs elicit greater shrinkage of tumor spheroids. *Oncotarget*, **2017**, 8, 80841-80852	3.3	4
162	Inkjet-printed porous polyaniline gel as an efficient anode for microbial fuel cells. *Journal of Materials Chemistry A*, **2016**, 4, 14555-14559	13	49
161	Naphthoquinone glycosides for bioelectroanalytical enumeration of the faecal indicator Escherichia coli. *Microbial Biotechnology*, **2016**, 9, 746-757	6.3	13
160	Catalytic effect of Bi 5+ in enhanced solar water splitting of tetragonal BiV 0.8 Mo 0.2 O 4. *Applied Catalysis A: General*, **2016**, 526, 21-27	5.1	10
159	Understanding charge transport in non-doped pristine and surface passivated hematite (FeO) nanorods under front and backside illumination in the context of light induced water splitting. *Physical Chemistry Chemical Physics*, **2016**, 18, 30370-30378	3.6	25

158	Electrospun Mo-BiVO4 for Efficient Photoelectrochemical Water Oxidation: Direct Evidence of Improved Hole Diffusion Length and Charge separation. *Electrochimica Acta*, **2016**, 211, 173-182	6.7	66
157	Nitrogen doped anatase-rutile heterostructured nanotubes for enhanced photocatalytic hydrogen production: Promising structure for sustainable fuel production. *International Journal of Hydrogen Energy*, **2016**, 41, 5865-5877	6.7	61
156	Multi-Drug-Loaded Microcapsules with Controlled Release for Management of Parkinson's Disease. *Small*, **2016**, 12, 3712-22	11	14
155	Bandgap engineering of ternary sulfide nanocrystals by solution proton alloying for efficient photocatalytic H2 evolution. *Nano Energy*, **2016**, 26, 577-585	17.1	17
154	Achieving High Electrocatalytic Efficiency on Copper: A Low-Cost Alternative to Platinum for Hydrogen Generation in Water. *ACS Catalysis*, **2015**, 5, 4115-4120	13.1	67
153	Application-driven multi-layered particles – The role of polymers in the architectural design of particles. *Polymer*, **2015**, 71, A1-A11	3.9	9
152	Chemically Functionalized Conjugated Oligoelectrolyte Nanoparticles for Enhancement of Current Generation in Microbial Fuel Cells. *ACS Applied Materials & Interfaces*, **2015**, 7, 14501-5	9.5	19
151	Solution-based fabrication of VO2 (M) nanoparticles via lyophilisation. *RSC Advances*, **2015**, 5, 25669-25675	3.7	21
150	TiO2 nanoparticles alleviate toxicity by reducing free Zn2+ ion in human primary epidermal keratinocytes exposed to ZnO nanoparticles. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	7
149	The multi-facets of sustainable nanotechnology - Lessons from a nanosafety symposium. *Nanotoxicology*, **2015**, 9, 404-6	5.3	7
148	A "uniform" heterogeneous photocatalyst: integrated p-n type CuInS2/NaInS2 nanosheets by partial ion exchange reaction for efficient H2 evolution. *Chemical Communications*, **2015**, 51, 9381-4	5.8	18
147	A cyanine-modified upconversion nanoprobe for NIR-excited imaging of endogenous hydrogen peroxide signaling in vivo. *Biomaterials*, **2015**, 54, 34-43	15.6	60
146	Recent developments in multilayered polymeric particles - from fabrication techniques to therapeutic formulations. *Journal of Materials Chemistry B*, **2015**, 3, 3406-3419	7.3	20
145	Delivery of doxorubicin and paclitaxel from double-layered microparticles: The effects of layer thickness and dual-drug vs. single-drug loading. *Acta Biomaterialia*, **2015**, 27, 53-65	10.8	28
144	TiO2-nanoparticles shield HPEKs against ZnO-induced genotoxicity. *Materials and Design*, **2015**, 88, 41-50	8.1	4
143	Fe2O3 Nanoparticle/SWCNT Composite Electrode for Sensitive Electrocatalytic Oxidation of Hydroquinone. *Electrochimica Acta*, **2015**, 180, 1059-1067	6.7	36
142	Aroyleneimidazophenazine: A Sensitive Probe for Detecting CN⁻ Anion and its Solvatochromism Effect. *Journal of Heterocyclic Chemistry*, **2015**, 52, 1699-1704	1.9	7
141	Early controlled release of peroxisome proliferator-activated receptor-β/δ agonist GW501516 improves diabetic wound healing through redox modulation of wound microenvironment. *Journal of Controlled Release*, **2015**, 197, 138-47	11.7	35

140	Fluorescence techniques used to measure interactions between hydroxyapatite nanoparticles and epidermal growth factor receptors. *Biotechnology Journal*, **2015**, 10, 171-9	5.6	2
139	Enhancement in hydrogen evolution using Au-TiO hollow spheres with microbial devices modified with conjugated oligoelectrolytes. *Npj Biofilms and Microbiomes*, **2015**, 1, 15020	8.2	9
138	Employing a Flexible and Low-Cost Polypyrrole Nanotube Membrane as an Anode to Enhance Current Generation in Microbial Fuel Cells. *Small*, **2015**, 11, 3440-3	11	113
137	Anditalea andensis ANESC-ST--An Alkaliphilic Halotolerant Bacterium Capable of Electricity Generation under Alkaline-Saline Conditions. *PLoS ONE*, **2015**, 10, e0132766	3.7	5
136	Novel Sensor-Enabled Ex Vivo Bioreactor: A New Approach towards Physiological Parameters and Porcine Artery Viability. *BioMed Research International*, **2015**, 2015, 958170	3	7
135	Metabolite-enabled mutualistic interaction between Shewanella oneidensis and Escherichia coli in a co-culture using an electrode as electron acceptor. *Scientific Reports*, **2015**, 5, 11222	4.9	25
134	Oligopolyphenylenevinylene-conjugated oligoelectrolyte membrane insertion molecules selectively disrupt cell envelopes of Gram-positive bacteria. *Applied and Environmental Microbiology* , **2015**, 81, 1949-58	4.8	26
133	High Throughput Screening of Valganciclovir in Acidic Microenvironments of Polyester Thin Films. *Materials*, **2015**, 8, 1714-1728	3.5	5
132	Hybrid Conducting Biofilm with Built-in Bacteria for High-Performance Microbial Fuel Cells. *ChemElectroChem*, **2015**, 2, 654-658	4.3	64
131	Calcium phosphate coated Keratin-PCL scaffolds for potential bone tissue regeneration. *Materials Science and Engineering C*, **2015**, 49, 746-753	8.3	41
130	Nanoparticle-assay marker interaction: effects on nanotoxicity assessment. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	2
129	Development of a magnetic 3D spheroid platform with potential application for high-throughput drug screening. *Molecular Pharmaceutics*, **2014**, 11, 2182-9	5.6	20
128	Hetero-nanostructured suspended photocatalysts for solar-to-fuel conversion. *Energy and Environmental Science*, **2014**, 7, 3934-3951	35.4	408
127	Uncovering alternate charge transfer mechanisms in Escherichia coli chemically functionalized with conjugated oligoelectrolytes. *Chemical Communications*, **2014**, 50, 8223-6	5.8	30
126	Larger extended anti-/syn-aroylenediimidazole polyaromatic compounds: synthesis, physical properties, self-assembly, and quasi-linear conjugation effect. *RSC Advances*, **2014**, 4, 17822-17831	3.7	20
125	Increasing Hydrophobicity of Nanoparticles Intensifies Lung Surfactant Film Inhibition and Particle Retention. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 1574-1580	8.3	53
124	A strategy for in-situ synthesis of well-defined core shell Au@TiO2 hollow spheres for enhanced photocatalytic hydrogen evolution. *Chemical Engineering Journal*, **2014**, 257, 112-121	14.7	44
123	Nanoporous thermochromic VO (M) thin films: controlled porosity, largely enhanced luminous transmittance and solar modulating ability. *Langmuir*, **2014**, 30, 1710-5	4	101

122	Hybrid catalysts for photoelectrochemical reduction of carbon dioxide: a prospective review on semiconductor/metal complex co-catalyst systems. *Journal of Materials Chemistry A*, **2014**, 2, 15228	13	93
121	Modeling cell membrane perturbation by molecules designed for transmembrane electron transfer. *Langmuir*, **2014**, 30, 2429-40	4	47
120	Inorganic-organic hybrid nanoprobe for NIR-excited imaging of hydrogen sulfide in cell cultures and inflammation in a mouse model. *Small*, **2014**, 10, 4874-85	11	72
119	Rhodamine-modified upconversion nanophosphors for ratiometric detection of hypochlorous acid in aqueous solution and living cells. *Small*, **2014**, 10, 3560-7	11	102
118	Drug-eluting scaffolds for bone and cartilage regeneration. *Drug Discovery Today*, **2014**, 19, 714-24	8.8	18
117	Comparison of flavins and a conjugated oligoelectrolyte in stimulating extracellular electron transport from Shewanella oneidensis MR-1. *Electrochemistry Communications*, **2014**, 41, 55-58	5.1	45
116	A stable synergistic microbial consortium for simultaneous azo dye removal and bioelectricity generation. *Bioresource Technology*, **2014**, 155, 71-6	11	21
115	A controlled release of antibiotics from calcium phosphate-coated poly(lactic-co-glycolic acid) particles and their in vitro efficacy against Staphylococcus aureus biofilm. *Journal of Materials Science: Materials in Medicine*, **2014**, 25, 747-57	4.5	24
114	Sustained Release of Hydrophilic l-ascorbic acid 2-phosphate Magnesium from Electrospun Polycaprolactone Scaffold-A Study across Blend, Coaxial, and Emulsion Electrospinning Techniques. *Materials*, **2014**, 7, 7398-7408	3.5	16
113	Biogenic tellurium nanorods as a novel antivirulence agent inhibiting pyoverdine production in Pseudomonas aeruginosa. *Biotechnology and Bioengineering*, **2014**, 111, 858-65	4.9	27
112	Reactive Oxygen Species: Rhodamine-Modified Upconversion Nanophosphors for Ratiometric Detection of Hypochlorous Acid in Aqueous Solution and Living Cells (Small 17/2014). *Small*, **2014**, 10, 3592-3592	11	1
111	Inhibition of 3-D tumor spheroids by timed-released hydrophilic and hydrophobic drugs from multilayered polymeric microparticles. *Small*, **2014**, 10, 3986-96	11	19
110	Membrane permeabilization underlies the enhancement of extracellular bioactivity in Shewanella oneidensis by a membrane-spanning conjugated oligoelectrolyte. *Applied Microbiology and Biotechnology*, **2014**, 98, 9021-31	5.7	29
109	Solar-to-fuels conversion over In2O3/g-C3N4 hybrid photocatalysts. *Applied Catalysis B: Environmental*, **2014**, 147, 940-946	21.8	328
108	Noble-metal-free g-C3N4/Ni(dmgH)2 composite for efficient photocatalytic hydrogen evolution under visible light irradiation. *Applied Surface Science*, **2014**, 319, 344-349	6.7	142
107	Mechanistic insights into the effect of nanoparticles on zebrafish hatch. *Nanotoxicology*, **2014**, 8, 295-304	5.3	71
106	Modulating drug release from gastric-floating microcapsules through spray-coating layers. *PLoS ONE*, **2014**, 9, e114284	3.7	13
105	Cytotoxicity of hydroxyapatite nanoparticles is shape and cell dependent. *Archives of Toxicology*, **2013**, 87, 1037-52	5.8	156

104	Improving charge collection in Escherichia coli-carbon electrode devices with conjugated oligoelectrolytes. *Physical Chemistry Chemical Physics*, **2013**, 15, 5867-72	3.6	92
103	Ion-induced synthesis of uniform single-crystalline sulphide-based quaternary-alloy hexagonal nanorings for highly efficient photocatalytic hydrogen evolution. *Advanced Materials*, **2013**, 25, 2567-72	24	40
102	Modulating drug release from poly(lactic-co-glycolic acid) thin films through terminal end-groups and molecular weight. *Polymer Degradation and Stability*, **2013**, 98, 619-626	4.7	25
101	Exposure to titanium dioxide nanoparticles induces autophagy in primary human keratinocytes. *Small*, **2013**, 9, 387-92	11	90
100	Tuning drug release in polyester thin films: terminal end-groups determine specific rates of additive-free controlled drug release. *NPG Asia Materials*, **2013**, 5, e46-e46	10.3	28
99	Nanoparticle heterojunctions in ZnS□ZnO hybrid nanowires for visible-light-driven photocatalytic hydrogen generation. *CrystEngComm*, **2013**, 15, 5688	3.3	64
98	Artificial photosynthetic hydrogen evolution over g-C3N4 nanosheets coupled with cobaloxime. *Physical Chemistry Chemical Physics*, **2013**, 15, 18363-6	3.6	93
97	Gastric-floating microcapsules provide controlled and sustained release of multiple cardiovascular drugs. *Journal of Materials Chemistry B*, **2013**, 1, 1090-1095	7.3	19
96	In-situ growth of CdS quantum dots on g-C3N4 nanosheets for highly efficient photocatalytic hydrogen generation under visible light irradiation. *International Journal of Hydrogen Energy*, **2013**, 38, 1258-1266	6.7	302
95	Size influences the cytotoxicity of poly (lactic-co-glycolic acid) (PLGA) and titanium dioxide (TiO(2)) nanoparticles. *Archives of Toxicology*, **2013**, 87, 1075-86	5.8	89
94	Size of TiO(2) nanoparticles influences their phototoxicity: an in vitro investigation. *Archives of Toxicology*, **2013**, 87, 99-109	5.8	67
93	Synthesis, physical properties, and self-assembly of a novel asymmetric aroyleneimidazophenazine. *Chemistry - an Asian Journal*, **2013**, 8, 665-9	4.5	40
92	Biophysical responses upon the interaction of nanomaterials with cellular interfaces. *Accounts of Chemical Research*, **2013**, 46, 782-91	24.3	111
91	One-step fabrication of core-shell structured alginate-PLGA/PLLA microparticles as a novel drug delivery system for water soluble drugs. *Biomaterials Science*, **2013**, 1, 486-493	7.4	40
90	Specific surface area of titanium dioxide (TiO2) particles influences cyto- and photo-toxicity. *Toxicology*, **2013**, 304, 132-40	4.4	42
89	Collagen-cellulose composite thin films that mimic soft-tissue and allow stem-cell orientation. *Journal of Materials Science: Materials in Medicine*, **2013**, 24, 2013-27	4.5	21
88	Understanding the photoelectrochemical properties of a reduced graphene oxide□WO3 heterojunction photoanode for efficient solar-light-driven overall water splitting. *RSC Advances*, **2013**, 3, 9330	3.7	60
87	A novel strategy for surface treatment on hematite photoanode for efficient water oxidation. *Chemical Science*, **2013**, 4, 164-169	9.4	140

86	Molecule-based water-oxidation catalysts (WOCs): cluster-size-dependent dye-sensitized polyoxometalates for visible-light-driven O2 evolution. *Scientific Reports*, **2013**, 3, 1853	4.9	64
85	A new N-substituted heteroacene can detect CN□and F□anions via anion□interaction. *RSC Advances*, **2013**, 3, 9653	3.7	46
84	Emerging in vitro models for safety screening of high-volume production nanomaterials under environmentally relevant exposure conditions. *Small*, **2013**, 9, 1504-20	11	21
83	Titanium dioxide nanomaterials cause endothelial cell leakiness by disrupting the homophilic interaction of VE-cadherin. *Nature Communications*, **2013**, 4, 1673	17.4	326
82	Manipulating magnetic 3D spheroids in hanging drops for applications in tissue engineering and drug screening. *Advanced Healthcare Materials*, **2013**, 2, 1430-4	10.1	24
81	The influence of additives in modulating drug delivery and degradation of PLGA thin films. *NPG Asia Materials*, **2013**, 5, e54-e54	10.3	35
80	Cytotoxic and genotoxic characterization of titanium dioxide, gadolinium oxide, and poly(lactic-co-glycolic acid) nanoparticles in human fibroblasts. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 633-40	5.4	52
79	Evaluating the toxicity of hydroxyapatite nanoparticles in catfish cells and zebrafish embryos. *Small* , **2013**, 9, 1734-41	11	32
78	SMAD3 deficiency promotes inflammatory aortic aneurysms in angiotensin II-infused mice via activation of iNOS. *Journal of the American Heart Association*, **2013**, 2, e000269	6	41
77	Engineering PQS biosynthesis pathway for enhancement of bioelectricity production in pseudomonas aeruginosa microbial fuel cells. *PLoS ONE*, **2013**, 8, e63129	3.7	56
76	Gold Coating of Silver Nanoprisms. *Advanced Functional Materials*, **2012**, 22, 849-854	15.6	108
75	Designing drug-loaded multi-layered polymeric microparticles. *Journal of Materials Science: Materials in Medicine*, **2012**, 23, 81-8	4.5	11
74	Plasmon-Enhanced Hydrogen Evolution on Au-InVO4 Hybrid Microspheres. *RSC Advances*, **2012**, 2, 5513	3.7	37
73	Revolutionizing drug delivery through biodegradable multilayered particles. *Journal of Drug Targeting*, **2012**, 20, 633-47	5.4	15
72	An efficient visible and UV-light-activated B□N-codoped TiO2 photocatalytic film for solar depollution prepared via a green method. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	4
71	Enhancing the photocatalytic efficiency of TiO2 nanopowders for H2 production by using non-noble transition metal co-catalysts. *Physical Chemistry Chemical Physics*, **2012**, 14, 11596-9	3.6	104
70	Surface treatment of hematite photoanodes with zinc acetate for water oxidation. *Nanoscale*, **2012** , 4, 4430-3	7.7	74
69	Preparation of Au-BiVO4 heterogeneous nanostructures as highly efficient visible-light photocatalysts. *ACS Applied Materials & Interfaces*, **2012**, 4, 418-23	9.5	231

68	Co-assembly of Zn(SPh)2 and organic linkers into helical and zig-zag polymer chains. *Journal of Solid State Chemistry*, **2012**, 191, 283-286	3.3	16
67	Unconventional nucleation and oriented growth of ZIF-8 crystals on non-polar surface. *Advanced Materials*, **2012**, 24, 5954-8	24	43
66	Novel assembly of an MoS2 electrocatalyst onto a silicon nanowire array electrode to construct a photocathode composed of elements abundant on the earth for hydrogen generation. *Chemistry - A European Journal*, **2012**, 18, 13994-9	4.8	97
65	Mesoporous plasmonic Au□iO2 nanocomposites for efficient visible-light-driven photocatalytic water reduction. *International Journal of Hydrogen Energy*, **2012**, 37, 17853-17861	6.7	130
64	One stone kills four birds: a novel diazaperinone 12H-pyrazino[2?,3?:3,4]pyrrolo[1,2-a]perimidin-12-one recognizes four different metal ions. *Tetrahedron Letters*, **2012**, 53, 6044-6047	2	9
63	Copper molybdenum sulfide: a new efficient electrocatalyst for hydrogen production from water. *Energy and Environmental Science*, **2012**, 5, 8912	35.4	274
62	Co3O4-Decorated Hematite Nanorods As an Effective Photoanode for Solar Water Oxidation. *Journal of Physical Chemistry C*, **2012**, 116, 13884-13889	3.8	130
61	In situ growth of Au nanoparticles on Fe2O3 nanocrystals for catalytic applications. *CrystEngComm*, **2012**, 14, 7229	3.3	41
60	Fabrication and drug release study of double-layered microparticles of various sizes. *Journal of Pharmaceutical Sciences*, **2012**, 101, 2787-97	3.9	29
59	In vitro characterizations of mesoporous hydroxyapatite as a controlled release delivery device for VEGF in orthopedic applications. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 3143-50	5.4	19
58	Modeling of drug release from biodegradable triple-layered microparticles. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 3353-62	5.4	9
57	Recent advances in hybrid photocatalysts for solar fuel production. *Energy and Environmental Science*, **2012**, 5, 5902	35.4	502
56	Microencapsulation of dye- and drug-loaded particles for imaging and controlled release of multiple drugs. *Advanced Healthcare Materials*, **2012**, 1, 159-63	10.1	12
55	A cuprous oxide-reduced graphene oxide (Cu2O-rGO) composite photocatalyst for hydrogen generation: employing rGO as an electron acceptor to enhance the photocatalytic activity and stability of Cu2O. *Nanoscale*, **2012**, 4, 3875-8	7.7	259
54	Imparting functionality to a metal-organic framework material by controlled nanoparticle encapsulation. *Nature Chemistry*, **2012**, 4, 310-6	17.6	1549
53	Designing calcium phosphate-based bifunctional nanocapsules with bone-targeting properties. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	5
52	Novel gradient casting method provides high-throughput assessment of blended polyester poly(lactic-co-glycolic acid) thin films for parameter optimization. *Acta Biomaterialia*, **2012**, 8, 2263-70	10.8	20
51	Designing multilayered particulate systems for tunable drug release profiles. *Acta Biomaterialia*, **2012**, 8, 2271-8	10.8	23

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