Joachim Loo

List of Publications by Citations

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	Imparting functionality to a metal-organic framework material by controlled nanoparticle encapsulation. *Nature Chemistry*, **2012**, 4, 310-6	17.6	1549
210	Recent advances in hybrid photocatalysts for solar fuel production. *Energy and Environmental Science*, **2012**, 5, 5902	35.4	502
209	Hetero-nanostructured suspended photocatalysts for solar-to-fuel conversion. *Energy and Environmental Science*, **2014**, 7, 3934-3951	35.4	408
208	Solar-to-fuels conversion over In2O3/g-C3N4 hybrid photocatalysts. *Applied Catalysis B: Environmental*, **2014**, 147, 940-946	21.8	328
207	Titanium dioxide nanomaterials cause endothelial cell leakiness by disrupting the homophilic interaction of VE-cadherin. *Nature Communications*, **2013**, 4, 1673	17.4	326
206	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
205	Copper molybdenum sulfide: a new efficient electrocatalyst for hydrogen production from water. *Energy and Environmental Science*, **2012**, 5, 8912	35.4	274
204	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
203	Preparation of Au-BiVO4 heterogeneous nanostructures as highly efficient visible-light photocatalysts. *ACS Applied Materials & Interfaces*, **2012**, 4, 418-23	9.5	231
202	Degradation of poly(lactide-co-glycolide) (PLGA) and poly(L-lactide) (PLLA) by electron beam radiation. *Biomaterials*, **2005**, 26, 1359-67	15.6	226
201	The role of the tumor suppressor p53 pathway in the cellular DNA damage response to zinc oxide nanoparticles. *Biomaterials*, **2011**, 32, 8218-25	15.6	161
200	Cytotoxicity of hydroxyapatite nanoparticles is shape and cell dependent. *Archives of Toxicology*, **2013**, 87, 1037-52	5.8	156
199	Evaluation of the cytotoxic and inflammatory potential of differentially shaped zinc oxide nanoparticles. *Archives of Toxicology*, **2011**, 85, 1517-28	5.8	153
198	Gadolinium oxide ultranarrow nanorods as multimodal contrast agents for optical and magnetic resonance imaging. *Langmuir*, **2010**, 26, 8959-65	4	147
197	Living and Conducting: Coating Individual Bacterial Cells with In Situ Formed Polypyrrole. *Angewandte Chemie - International Edition*, **2017**, 56, 10516-10520	16.4	146
196	Toxicity of zinc oxide (ZnO) nanoparticles on human bronchial epithelial cells (BEAS-2B) is accentuated by oxidative stress. *Food and Chemical Toxicology*, **2010**, 48, 1762-6	4.7	145
195	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

194	A novel strategy for surface treatment on hematite photoanode for efficient water oxidation. *Chemical Science*, **2013**, 4, 164-169	9.4	140
193	Mesoporous plasmonic Au□TiO2 nanocomposites for efficient visible-light-driven photocatalytic water reduction. *International Journal of Hydrogen Energy*, **2012**, 37, 17853-17861	6.7	130
192	Co3O4-Decorated Hematite Nanorods As an Effective Photoanode for Solar Water Oxidation. *Journal of Physical Chemistry C*, **2012**, 116, 13884-13889	3.8	130
191	Controlled release of sirolimus from a multilayered PLGA stent matrix. *Biomaterials*, **2006**, 27, 5588-95	15.6	123
190	Radiation effects on poly(lactide-co-glycolide) (PLGA) and poly(l-lactide) (PLLA). *Polymer Degradation and Stability*, **2004**, 83, 259-265	4.7	122
189	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
188	Biophysical responses upon the interaction of nanomaterials with cellular interfaces. *Accounts of Chemical Research*, **2013**, 46, 782-91	24.3	111
187	Gold Coating of Silver Nanoprisms. *Advanced Functional Materials*, **2012**, 22, 849-854	15.6	108
186	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
185	Rhodamine-modified upconversion nanophosphors for ratiometric detection of hypochlorous acid in aqueous solution and living cells. *Small*, **2014**, 10, 3560-7	11	102
184	Nanoporous thermochromic VO□(M) thin films: controlled porosity, largely enhanced luminous transmittance and solar modulating ability. *Langmuir*, **2014**, 30, 1710-5	4	101
183	Adverse biophysical effects of hydroxyapatite nanoparticles on natural pulmonary surfactant. *ACS Nano*, **2011**, 5, 6410-6	16.7	100
182	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
181	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
180	Nanostructure control of graphene-composited TiO2 by a one-step solvothermal approach for high performance dye-sensitized solar cells. *Nanoscale*, **2011**, 3, 4613-6	7.7	94
179	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
178	Artificial photosynthetic hydrogen evolution over g-C3N4 nanosheets coupled with cobaloxime. *Physical Chemistry Chemical Physics*, **2013**, 15, 18363-6	3.6	93
177	Improving charge collection in Escherichia coli-carbon electrode devices with conjugated oligoelectrolytes. *Physical Chemistry Chemical Physics*, **2013**, 15, 5867-72	3.6	92

176	Exposure to titanium dioxide nanoparticles induces autophagy in primary human keratinocytes. *Small*, **2013**, 9, 387-92	11	90
175	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
174	Cellular behavior of human mesenchymal stem cells cultured on single-walled carbon nanotube film. *Carbon*, **2010**, 48, 1095-1104	10.4	87
173	Transparent visible light activated CNF-codoped TiO2 films for self-cleaning applications. *Journal of Photochemistry and Photobiology A: Chemistry*, **2010**, 210, 181-187	4.7	85
172	Synthesis and hydrothermal treatment of nanostructured hydroxyapatite of controllable sizes. *Journal of Materials Science: Materials in Medicine*, **2008**, 19, 1389-97	4.5	80
171	Surface treatment of hematite photoanodes with zinc acetate for water oxidation. *Nanoscale*, **2012** , 4, 4430-3	7.7	74
170	Synthesis of high surface area mesostructured calcium phosphate particles. *Acta Biomaterialia*, **2010**, 6, 3772-81	10.8	74
169	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
168	The role of PEG architecture and molecular weight in the gene transfection performance of PEGylated poly(dimethylaminoethyl methacrylate) based cationic polymers. *Biomaterials*, **2011**, 32, 2369-78	15.6	72
167	Mechanistic insights into the effect of nanoparticles on zebrafish hatch. *Nanotoxicology*, **2014**, 8, 295-304	5.3	71
166	Single-Phase Dy2O3:Tb3+Nanocrystals as Dual-Modal Contrast Agent for High Field Magnetic Resonance and Optical Imaging. *Chemistry of Materials*, **2011**, 23, 2439-2446	9.6	70
165	Understanding Fundamentals and Reaction Mechanisms of Electrode Materials for Na-Ion Batteries. *Small*, **2018**, 14, e1703338	11	69
164	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
163	Size of TiO(2) nanoparticles influences their phototoxicity: an in vitro investigation. *Archives of Toxicology*, **2013**, 87, 99-109	5.8	67
162	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
161	Nanoparticle heterojunctions in ZnS/ZnO hybrid nanowires for visible-light-driven photocatalytic hydrogen generation. *CrystEngComm*, **2013**, 15, 5688	3.3	64
160	Hybrid Conducting Biofilm with Built-in Bacteria for High-Performance Microbial Fuel Cells. *ChemElectroChem*, **2015**, 2, 654-658	4.3	64
159	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

158	Biomedical applications of hydroxyapatite nanoparticles. *Current Pharmaceutical Biotechnology*, **2010**, 11, 333-42	2.6	62
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	A cyanine-modified upconversion nanoprobe for NIR-excited imaging of endogenous hydrogen peroxide signaling in vivo. *Biomaterials*, **2015**, 54, 34-43	15.6	60
155	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
154	Cytotoxicity of zinc oxide (ZnO) nanoparticles is influenced by cell density and culture format. *Archives of Toxicology*, **2011**, 85, 695-704	5.8	60
153	Influence of electron-beam radiation on the hydrolytic degradation behaviour of poly(lactide-co-glycolide) (PLGA). *Biomaterials*, **2005**, 26, 3809-17	15.6	59
152	Exploiting the high-affinity phosphonate hydroxyapatite nanoparticle interaction for delivery of radiation and drugs. *Journal of Nanoparticle Research*, **2008**, 10, 141-150	2.3	58
151	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
150	Engineering PQS biosynthesis pathway for enhancement of bioelectricity production in pseudomonas aeruginosa microbial fuel cells. *PLoS ONE*, **2013**, 8, e63129	3.7	56
149	Effect of isothermal annealing on the hydrolytic degradation rate of poly(lactide-co-glycolide) (PLGA). *Biomaterials*, **2005**, 26, 2827-33	15.6	55
148	The effect of polyethylene glycol structure on paclitaxel drug release and mechanical properties of PLGA thin films. *Acta Biomaterialia*, **2011**, 7, 1973-83	10.8	54
147	Developing Nano-Delivery Systems for Agriculture and Food Applications with Nature-Derived Polymers. *IScience*, **2020**, 23, 101055	6.1	54
146	Increasing Hydrophobicity of Nanoparticles Intensifies Lung Surfactant Film Inhibition and Particle Retention. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 1574-1580	8.3	53
145	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
144	Inkjet-printed porous polyaniline gel as an efficient anode for microbial fuel cells. *Journal of Materials Chemistry A*, **2016**, 4, 14555-14559	13	49
143	Modeling cell membrane perturbation by molecules designed for transmembrane electron transfer. *Langmuir*, **2014**, 30, 2429-40	4	47
142	A new N-substituted heteroacene can detect CN and F anions via anion interaction. *RSC Advances*, **2013**, 3, 9653	3.7	46
141	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

140	Cellular uptake of Poly-(D,L-lactide-co-glycolide) (PLGA) nanoparticles synthesized through solvent emulsion evaporation and nanoprecipitation method. *Biotechnology Journal*, **2011**, 6, 501-8	5.6	45
139	Drug release from irradiated PLGA and PLLA multi-layered films. *Journal of Pharmaceutical Sciences* , **2010**, 99, 3060-71	3.9	45
138	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
137	In vitro assessment of cellular responses to rod-shaped hydroxyapatite nanoparticles of varying lengths and surface areas. *Nanotoxicology*, **2011**, 5, 182-94	5.3	44
136	Unconventional nucleation and oriented growth of ZIF-8 crystals on non-polar surface. *Advanced Materials*, **2012**, 24, 5954-8	24	43
135	Specific surface area of titanium dioxide (TiO2) particles influences cyto- and photo-toxicity. *Toxicology*, **2013**, 304, 132-40	4.4	42
134	One-step fabrication of triple-layered polymeric microparticles with layer localization of drugs as a novel drug-delivery system. *Small*, **2010**, 6, 1003-11	11	42
133	Hydrolytic degradation of electron beam irradiated high molecular weight and non-irradiated moderate molecular weight PLLA. *Acta Biomaterialia*, **2006**, 2, 287-96	10.8	42
132	Calcium phosphate coated Keratin-PCL scaffolds for potential bone tissue regeneration. *Materials Science and Engineering C*, **2015**, 49, 746-753	8.3	41
131	In situ growth of Au nanoparticles on Fe2O3 nanocrystals for catalytic applications. *CrystEngComm*, **2012**, 14, 7229	3.3	41
130	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
129	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
128	Synthesis, physical properties, and self-assembly of a novel asymmetric aroyleneimidazophenazine. *Chemistry - an Asian Journal*, **2013**, 8, 665-9	4.5	40
127	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
126	Altering the drug release profiles of double-layered ternary-phase microparticles. *Journal of Controlled Release*, **2011**, 151, 229-38	11.7	39
125	Synthesis and cytotoxic activities of chloropyridylimineplatinum(II) and chloropyridyliminecopper(II) surface-functionalized poly(amidoamine) dendrimers. *Journal of Inorganic Biochemistry*, **2010**, 104, 105-10	4.2	39
124	Plasmon-Enhanced Hydrogen Evolution on Au-InVO4 Hybrid Microspheres. *RSC Advances*, **2012**, 2, 5513	3.7	37
123	A three-way synergy of triple-modified Bi2WO6/Ag/N-TiO2 nanojunction film for enhanced photogenerated charges utilization. *Chemical Communications*, **2011**, 47, 8641-3	5.8	37

122	Fe2O3 Nanoparticle/SWCNT Composite Electrode for Sensitive Electrocatalytic Oxidation of Hydroquinone. *Electrochimica Acta*, **2015**, 180, 1059-1067	6.7	36
121	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
120	The influence of additives in modulating drug delivery and degradation of PLGA thin films. *NPG Asia Materials*, **2013**, 5, e54-e54	10.3	35
119	Evaluating the toxicity of hydroxyapatite nanoparticles in catfish cells and zebrafish embryos. *Small* , **2013**, 9, 1734-41	11	32
118	Uncovering alternate charge transfer mechanisms in Escherichia coli chemically functionalized with conjugated oligoelectrolytes. *Chemical Communications*, **2014**, 50, 8223-6	5.8	30
117	Spectroscopy techniques for analyzing the hydrolysis of PLGA and PLLA. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2009**, 91, 433-40	3.5	30
116	Phosphate tuned copper electrodeposition and promoted formic acid selectivity for carbon dioxide reduction. *Journal of Materials Chemistry A*, **2017**, 5, 11905-11916	13	29
115	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
114	Fabrication and drug release study of double-layered microparticles of various sizes. *Journal of Pharmaceutical Sciences*, **2012**, 101, 2787-97	3.9	29
113	In situ SAXRD study of sol-gel induced well-ordered mesoporous bioglasses for drug delivery. *Journal of Biomedical Materials Research - Part A*, **2008**, 85, 1032-42	5.4	29
112	Rapid purification of sub-micrometer particles for enhanced drug release and microvesicles isolation. *NPG Asia Materials*, **2017**, 9, e434-e434	10.3	28
111	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
110	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
109	Biogenic tellurium nanorods as a novel antivirulence agent inhibiting pyoverdine production in Pseudomonas aeruginosa. *Biotechnology and Bioengineering*, **2014**, 111, 858-65	4.9	27
108	Comparative cytotoxicity evaluation of lanthanide nanomaterials on mouse and human cell lines with metabolic and DNA-quantification assays. *Biointerphases*, **2010**, 5, FA88-97	1.8	27
107	Application of Raman microscopy to biodegradable double-walled microspheres. *Analytical Chemistry*, **2010**, 82, 1277-82	7.8	27
106	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
105	Hydrolytic degradation characteristics of irradiated multi-layered PLGA films. *International Journal of Pharmaceutics*, **2008**, 360, 228-30	6.5	26

104	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
103	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
102	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
101	Superhydrophilicity-assisted preparation of transparent and visible light activated N-doped titania film. *Nanoscale*, **2010**, 2, 1122-7	7.7	25
100	Use of Raman microscopy and multivariate data analysis to observe the biomimetic growth of carbonated hydroxyapatite on bioactive glass. *Analytical Chemistry*, **2009**, 81, 1442-9	7.8	25
99	Manipulation of process parameters to achieve different ternary phase microparticle configurations. *Acta Biomaterialia*, **2010**, 6, 1342-52	10.8	25
98	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
97	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
96	Designing multilayered particulate systems for tunable drug release profiles. *Acta Biomaterialia*, **2012**, 8, 2271-8	10.8	23
95	Biofilm-Templated Heteroatom-Doped Carbon-Palladium Nanocomposite Catalyst for Hexavalent Chromium Reduction. *ACS Applied Materials & Interfaces*, **2019**, 11, 24018-24026	9.5	22
94	Solution-based fabrication of VO2 (M) nanoparticles via lyophilisation. *RSC Advances*, **2015**, 5, 25669-25675	3.7	21
93	A stable synergistic microbial consortium for simultaneous azo dye removal and bioelectricity generation. *Bioresource Technology*, **2014**, 155, 71-6	11	21
92	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
91	Emerging in vitro models for safety screening of high-volume production nanomaterials under environmentally relevant exposure conditions. *Small*, **2013**, 9, 1504-20	11	21
90	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
89	Recent developments in multilayered polymeric particles - from fabrication techniques to therapeutic formulations. *Journal of Materials Chemistry B*, **2015**, 3, 3406-3419	7.3	20
88	Development of a magnetic 3D spheroid platform with potential application for high-throughput drug screening. *Molecular Pharmaceutics*, **2014**, 11, 2182-9	5.6	20
87	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

86	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
85	High-throughput screening of PLGA thin films utilizing hydrophobic fluorescent dyes for hydrophobic drug compounds. *Journal of Pharmaceutical Sciences*, **2011**, 100, 4317-29	3.9	20
84	In vitro cytotoxicity evaluation of biomedical nanoparticles and their extracts. *Journal of Biomedical Materials Research - Part A*, **2010**, 93, 337-46	5.4	20
83	Investigation of the bioactivity and biocompatibility of different glass interfaces with hydroxyapatite, fluorohydroxyapatite and 58S bioactive glass. *BioFactors*, **2007**, 30, 205-16	6.1	20
82	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
81	Gastric-floating microcapsules provide controlled and sustained release of multiple cardiovascular drugs. *Journal of Materials Chemistry B*, **2013**, 1, 1090-1095	7.3	19
80	Inhibition of 3-D tumor spheroids by timed-released hydrophilic and hydrophobic drugs from multilayered polymeric microparticles. *Small*, **2014**, 10, 3986-96	11	19
79	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
78	Properties and hydrolysis of PLGA and PLLA cross-linked with electron beam radiation. *Polymer Degradation and Stability*, **2010**, 95, 771-777	4.7	19
77	Local release of rapamycin by microparticles delays islet rejection within the anterior chamber of the eye. *Scientific Reports*, **2019**, 9, 3918	4.9	18
76	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
75	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
74	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
73	Small-Intestine-Specific Delivery of Antidiabetic Extracts from Using Polysaccharide-Based Enteric-Coated Nanoparticles. *ACS Omega*, **2019**, 4, 12049-12057	3.9	18
72	Drug-eluting scaffolds for bone and cartilage regeneration. *Drug Discovery Today*, **2014**, 19, 714-24	8.8	18
71	Utilizing inverse micelles to synthesize calcium phosphate nanoparticles as nano-carriers. *Journal of Nanoparticle Research*, **2011**, 13, 3441-3454	2.3	18
70	Controlled-release nanoencapsulating microcapsules to combat inflammatory diseases. *Drug Design, Development and Therapy*, **2017**, 11, 1707-1717	4.4	17
69	A new insight for an old system: protein-PEG colocalization in relation to protein release from PCL/PEG blends. *Molecular Pharmaceutics*, **2011**, 8, 2173-82	5.6	17

68	Bandgap engineering of ternary sulfide nanocrystals by solution proton alloying for efficient photocatalytic H2 evolution. *Nano Energy*, **2016**, 26, 577-585	17.1	17
67	Recent advances in complementary and replacement therapy with nutraceuticals in combating gastrointestinal illnesses. *Clinical Nutrition*, **2017**, 36, 968-979	5.9	16
66	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
65	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
64	Formation and degradation of biodegradable triple-layered microparticles. *Macromolecular Rapid Communications*, **2010**, 31, 1193-200	4.8	16
63	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
62	Revolutionizing drug delivery through biodegradable multilayered particles. *Journal of Drug Targeting*, **2012**, 20, 633-47	5.4	15
61	Hybrid Janus Microparticles Achieving Selective Encapsulation for Theranostic Applications via a Facile Solvent Emulsion Method. *Macromolecular Rapid Communications*, **2019**, 40, e1800801	4.8	15
60	Controlled degradation of multilayered poly(lactide-co-glycolide) films using electron beam irradiation. *Journal of Biomedical Materials Research - Part A*, **2008**, 84, 980-7	5.4	14
59	Prospects of kefiran as a food-derived biopolymer for agri-food and biomedical applications.. *RSC Advances*, **2020**, 10, 25339-25351	3.7	14
58	Multi-Drug-Loaded Microcapsules with Controlled Release for Management of Parkinson Disease. *Small*, **2016**, 12, 3712-22	11	14
57	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
56	Naphthoquinone glycosides for bioelectroanalytical enumeration of the faecal indicator Escherichia coli. *Microbial Biotechnology*, **2016**, 9, 746-757	6.3	13
55	Controlled size and morphology of EDTMP-doped hydroxyapatite nanoparticles as model for 153Samarium-EDTMP doping. *Journal of Materials Science: Materials in Medicine*, **2008**, 19, 2993-3003	4.5	13
54	Effects of controlled-released sirolimus from polymer matrices on human coronary artery smooth muscle cells. *Journal of Biomaterials Science, Polymer Edition*, **2007**, 18, 1401-14	3.5	13
53	Modulating drug release from gastric-floating microcapsules through spray-coating layers. *PLoS ONE*, **2014**, 9, e114284	3.7	13
52	Targeted Gastrointestinal Delivery of Nutraceuticals with Polysaccharide-Based Coatings. *Macromolecular Bioscience*, **2018**, 18, e1700363	5.5	12
51	Mechanistic formation of drug-encapsulated Janus particles through emulsion solvent evaporation.. *RSC Advances*, **2018**, 8, 16032-16042	3.7	12

50	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
49	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
48	Designing drug-loaded multi-layered polymeric microparticles. *Journal of Materials Science: Materials in Medicine*, **2012**, 23, 81-8	4.5	11
47	Co-synthesis and drug delivery properties of mesoporous hydroxyapatite-silica composites. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 3720-7	1.3	11
46	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
45	Improved Bioavailability of Levodopa Using Floatable Spray-Coated Microcapsules for the Management of Parkinson© Disease. *NeuroMolecular Medicine*, **2018**, 20, 262-270	4.6	10
44	Preservation of Anticancer and Immunosuppressive Properties of Rapamycin Achieved Through Controlled Releasing Particles. *AAPS PharmSciTech*, **2017**, 18, 2648-2657	3.9	9
43	Application-driven multi-layered particles □The role of polymers in the architectural design of particles. *Polymer*, **2015**, 71, A1-A11	3.9	9
42	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
41	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
40	Modeling of drug release from biodegradable triple-layered microparticles. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 3353-62	5.4	9
39	Isothermal annealing of poly(lactide-co-glycolide) (PLGA) and its effect on radiation degradation. *Polymer International*, **2005**, 54, 636-643	3.3	9
38	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
37	Intelligent Nanoparticle-Based Dressings for Bacterial Wound Infections. *ACS Applied Bio Materials*, **2021**, 4, 3849-3862	4.1	9
36	Therapeutic lipid-coated hybrid nanoparticles against bacterial infections.. *RSC Advances*, **2020**, 10, 8497-8517	3.7	8
35	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
34	The multi-facets of sustainable nanotechnology - Lessons from a nanosafety symposium. *Nanotoxicology*, **2015**, 9, 404-6	5.3	7
33	Aroyleneimidazophenazine: A Sensitive Probe for Detecting CN□Anion and its Solvatochromism Effect. *Journal of Heterocyclic Chemistry*, **2015**, 52, 1699-1704	1.9	7

32	Sustained releasing sponge-like 3D scaffolds for bone tissue engineering applications. *Biomedical Materials (Bristol)*, **2017**, 13, 015019	3.5	7
31	Novel Sensor-Enabled Ex Vivo Bioreactor: A New Approach towards Physiological Parameters and Porcine Artery Viability. *BioMed Research International*, **2015**, 2015, 958170	3	7
30	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
29	Hollow Microparticles as a Superior Delivery System over Solid Microparticles for the Encapsulation of Peptides. *Pharmaceutical Research*, **2018**, 35, 185	4.5	6
28	Nanophotonics based label free detection mechanism for real-time monitoring of interleukin-6. *Nanoscale*, **2020**, 12, 9194-9207	7.7	5
27	Osmogen-Mediated One-Step Technique of Fabricating Hollow Microparticles for Encapsulation and Delivery of Bioactive Molecules. *Macromolecular Bioscience*, **2017**, 17, 1600328	5.5	5
26	Anditalea andensis ANESC-ST--An Alkaliphilic Halotolerant Bacterium Capable of Electricity Generation under Alkaline-Saline Conditions. *PLoS ONE*, **2015**, 10, e0132766	3.7	5
25	High Throughput Screening of Valganciclovir in Acidic Microenvironments of Polyester Thin Films. *Materials*, **2015**, 8, 1714-1728	3.5	5
24	Designing calcium phosphate-based bifunctional nanocapsules with bone-targeting properties. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	5
23	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
22	TiO2-nanoparticles shield HPEKs against ZnO-induced genotoxicity. *Materials and Design*, **2015**, 88, 41-50	8.1	4
21	Multidrug-eluting bi-layered microparticle-mesh scaffolds for musculoskeletal tissue regeneration. *Journal of Materials Chemistry B*, **2018**, 6, 3340-3347	7.3	4
20	An efficient visible and UV-light-activated BN-codoped TiO2 photocatalytic film for solar depollution prepared via a green method. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	4
19	Sustained-releasing hollow microparticles with dual-anticancer drugs elicit greater shrinkage of tumor spheroids. *Oncotarget*, **2017**, 8, 80841-80852	3.3	4
18	Focused targeting of inhaled magnetic aerosols in reconstructed in vitro airway models. *Journal of Biomechanics*, **2021**, 118, 110279	2.9	4
17	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
16	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
15	Fluorescence techniques used to measure interactions between hydroxyapatite nanoparticles and epidermal growth factor receptors. *Biotechnology Journal*, **2015**, 10, 171-9	5.6	2

14	Synthesis of Polymeric Janus Superstructures via a Facile Synthesis Method. *Macromolecular Rapid Communications*, **2020**, 41, e2000140	4.8	2
13	Nanoparticle-assay marker interaction: effects on nanotoxicity assessment. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	2
12	Biomimetic processing of bioactive interface on silicon substrates. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2008**, 85, 368-77	3.5	2
11	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
10	Association of nanoparticle exposure with serum metabolic disorders of healthy adults in printing centers.. *Journal of Hazardous Materials*, **2022**, 432, 128710	12.8	2
9	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
8	A high-throughput method to characterize the gut bacteria growth upon engineered nanomaterial treatment. *Environmental Science: Nano*, **2020**, 7, 3155-3166	7.1	1
7	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
6	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
5	In situ alginate crosslinking during spray-drying of lactobacilli probiotics promotes gastrointestinal-targeted delivery.. *Carbohydrate Polymers*, **2022**, 286, 119279	10.3	1
4	IAEA Contribution to Nanosized Targeted Radiopharmaceuticals for Drug Delivery. *Pharmaceutics*, **2022**, 14, 1060	6.4	1
3	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
2	Liquorilactobacillus satsumensis from water kefir yields β-glucan polysaccharides with prebiotic and synbiotic qualities.. *Carbohydrate Polymers*, **2022**, 290, 119515	10.3	0
1	Macromol. Biosci. 4/2018. *Macromolecular Bioscience*, **2018**, 18, 1870010	5.5	