Humphrey H P Yiu

List of Publications by Year
in descending order

43 papers	2,954 citations	279798 23 h-index	276875 41 g-index
44 all docs	44 docs citations	44 times ranked	4853 citing authors

#	Article	IF	Citations
1	Enzyme immobilization on magnetic nanoparticle supports for enhanced separation and recycling of catalysts. , 2022, , 301-321.		7
2	Recent developments on magnetic molecular imprinted polymers (<scp>MMIPs</scp>) for sensing, capturing, and monitoring pharmaceutical and agricultural pollutants. Journal of Chemical Technology and Biotechnology, 2021, 96, 1151-1160.	3.2	22
3	Simulated biological fluids â€“ a systematic review of their biological relevance and use in relation to inhalation toxicology of particles and fibres. Critical Reviews in Toxicology, 2021, 51, 217-248.	3.9	46
4	The Principle and Architectures of Optical Stress Sensors and the Progress on the Development of Microbend Optical Sensors. Advanced Optical Materials, 2021, 9, 2001693.	7.3	13
5	In focus: latest development of nanotechnology in Latin America. Journal of Chemical Technology and Biotechnology, 2021, 96, 2093-2094.	3.2	1
6	Investigation into the Use of Microfluidics in the Manufacture of Metallic Gold-Coated Iron Oxide Hybrid Nanoparticles. Nanomaterials, 2021, 11, 2976.	4.1	1
7	Selective binding of antibiotics using magnetic molecular imprint polymer (MMIP) networks prepared from vinyl-functionalized magnetic nanoparticles. Journal of Hazardous Materials, 2020, 387, 121709.	12.4	49
8	Antimicrobial Properties of Gallium(III)- and Iron(III)-Loaded Polysaccharides Affecting the Growth of Escherichia coli, Staphylococcus aureus, and Pseudomonas aeruginosa, In Vitro. ACS Applied Bio Materials, 2020, 3, 7589-7597.	4.6	16
9	Antibacterial Activities of Ga(III) against E.Âcoli Are Substantially Impacted by Fe(III) Uptake Systems and Multidrug Resistance in Combination with Oxygen Levels. ACS Infectious Diseases, 2020, 6, 2959-2969.	3.8	7
10	How can nanoparticles help neural cell transplantation therapy?. Nanomedicine, 2020, 15, 2103-2106.	3.3	1
11	Tri-modal imaging of gold-dotted magnetic nanoparticles for magnetic resonance imaging, computed tomography and intravascular ultrasound: an in vitro study. Nanomedicine, 2020, 15, 2433-2445.	3.3	10
12	Synthesis of Conductive Carbon Aerogels Decorated with Î²-Tricalcium Phosphate Nanocrystallites. Scientific Reports, 2020, 10, 5758.	3.3	8
13	Localization of Coated Iron Oxide (Fe₃O₄) Nanoparticles on Tomato Seeds and Their Effects on Growth. ACS Applied Bio Materials, 2020, 3, 4109-4117.	4.6	28
14	Cofactor NAD(P)H Regeneration Inspired by Heterogeneous Pathways. CheM, 2017, 2, 621-654.	11.7	287
15	Aminated poly(vinyl chloride) solid state adsorbents with hydrophobic function for post-combustion CO₂ capture. Journal of Materials Chemistry A, 2017, 5, 11864-11872.	10.3	35
16	Heterogeneous Catalysis Mediated Cofactor NADH Regeneration for Enzymatic Reduction. ACS Catalysis, 2016, 6, 1880-1886.	11.2	99
17	â€˜Stealthâ€™ nanoparticles evade neural immune cells but also evade major brain cell populations: Implications for PEG-based neurotherapeutics. Journal of Controlled Release, 2016, 224, 136-145.	9.9	51
18	â€˜â€˜Hydrogen-Freeâ€™â€™ Hydrogenation of Nitrobenzene Over Cu/SiO2 Via Coupling with 2-Butanol Dehydrogenation. Topics in Catalysis, 2015, 58, 149-158.	2.8	23

#	Article	IF	Citations
19	Sustainable CO₂ Adsorbents Prepared by Coating Chitosan onto Mesoporous Silicas for Largeâ€Scale Carbon Capture Technology. Energy Technology, 2015, 3, 249-258.	3.8	49
20	Increasing magnetite contents of polymeric magnetic particles dramatically improves labeling of neural stem cell transplant populations. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 19-29.	3.3	33
21	The Potential Applications of Nanoporous Materials for the Adsorption, Separation, and Catalytic Conversion of Carbon Dioxide. Advanced Energy Materials, 2014, 4, 1301873.	19.5	165
22	Magnetic nanoparticles for oligodendrocyte precursor cell transplantation therapies: progress and challenges. Molecular and Cellular Therapies, 2014, 2, 23.	0.2	10
23	Comprehensive Study of DNA Binding on Iron(II,III) Oxide Nanoparticles with a Positively Charged Polyamine Three-Dimensional Coating. Langmuir, 2013, 29, 11354-11365.	3.5	15
24	Differences in magnetic particle uptake by CNS neuroglial subclasses: implications for neural tissue engineering. Nanomedicine, 2013, 8, 951-968.	3.3	37
25	Effect of novel antibacterial gallium-carboxymethyl cellulose on Pseudomonas aeruginosa. Dalton Transactions, 2013, 42, 1778-1786.	3.3	30
26	Fe3O4-PEI-RITC Magnetic Nanoparticles with Imaging and Gene Transfer Capability: Development of a Tool for Neural Cell Transplantation Therapies. Pharmaceutical Research, 2012, 29, 1328-1343.	3.5	52
27	Enzymeâ€“magnetic nanoparticle hybrids: new effective catalysts for the production of high value chemicals. Journal of Chemical Technology and Biotechnology, 2012, 87, 583-594.	3.2	84
28	Multi-responsive polymer-stabilized magnetic engineered emulsions as liquid-based switchable magneto-responsive actuators. Soft Matter, 2011, 7, 4335.	2.7	18
29	Chemical Grafting of a DNA Intercalator Probe onto Functional Iron Oxide Nanoparticles: A Physicochemical Study. Langmuir, 2011, 27, 6185-6192.	3.5	18
30	Engineering the multifunctional surface on magnetic nanoparticles for targeted biomedical applications: a chemical approach. Nanomedicine, 2011, 6, 1429-1446.	3.3	36
31	Novel Magnetite-Silica Nanocomposite (Fe₃O₄-SBA-15) Particles for DNA Binding and Gene Delivery Aided by a Magnet Array. Journal of Nanoscience and Nanotechnology, 2011, 11, 3586-3591.	0.9	14
32	Multifunctional Fe3O4 nanoparticles for targeted bi-modal imaging of pancreatic cancer. Journal of Materials Chemistry, 2011, 21, 12650.	6.7	62
33	The effect of platinum on the performance of WO₃ nanocrystal photocatalysts for the oxidation of Methyl Orange and isoâ€propanol. Journal of Chemical Technology and Biotechnology, 2011, 86, 1018-1023.	3.2	49
34	Preparation and characterization of polyethylenimineâ€coated Fe₃O₄â€MCMâ€48 nanocomposite particles as a novel agent for magnetâ€assisted transfection. Journal of Biomedical Materials Research - Part A, 2010, 92A, 386-392.	4.0	60
35	Designed Multifunctional Nanocomposites for Biomedical Applications. Advanced Functional Materials, 2010, 20, 1599-1609.	14.9	70
36	Preparation and Characterization of Iron Oxideâ€“Silica Composite Particles Using Mesoporous SBA-15 Silica as Template and Their Internalization Into Mesenchymal Stem Cell and Human Bone Cell Lines. IEEE Transactions on Nanobioscience, 2010, 9, 165-170.	3.3	8

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37	Magnetic nanoparticles for gene and drug delivery. International Journal of Nanomedicine, 2008, 3, 169.	6.7	503
38	On-line fluorescent monitoring of the degradation of polymeric scaffolds for tissue engineering. Analyst, The, 2005, 130, 1502.	3.5	20
39	Enzymes supported on ordered mesoporous solids: a special case of an inorganicâ€“organic hybrid. Journal of Materials Chemistry, 2005, 15, 3690.	6.7	381
40	NANOPOROUS MATERIALS AS SUPPORTS FOR ENZYME IMMOBILIZATION. Series on Chemical Engineering, 2004, , 849-872.	0.2	4
41	Biological applications of organically functionalised mesoporous molecular sieves and related materials. Studies in Surface Science and Catalysis, 2003, 146, 581-584.	1.5	3
42	Size selective protein adsorption on thiol-functionalised SBA-15 mesoporous molecular sieve. Physical Chemistry Chemical Physics, 2001, 3, 2983-2985.	2.8	219
43	Enzyme immobilisation using SBA-15 mesoporous molecular sieves with functionalised surfaces. Journal of Molecular Catalysis B: Enzymatic, 2001, 15, 81-92.	1.8	310