

Humphrey H P Yiu

List of Publications by Year in descending order

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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	Magnetic nanoparticles for gene and drug delivery. International Journal of Nanomedicine, 2008, 3, 169.	6.7	503
2	Enzymes supported on ordered mesoporous solids: a special case of an inorganic-organic hybrid. Journal of Materials Chemistry, 2005, 15, 3690.	6.7	381
3	Enzyme immobilisation using SBA-15 mesoporous molecular sieves with functionalised surfaces. Journal of Molecular Catalysis B: Enzymatic, 2001, 15, 81-92.	1.8	310
4	Cofactor NAD(P)H Regeneration Inspired by Heterogeneous Pathways. Chem, 2017, 2, 621-654.	11.7	287
5	Size selective protein adsorption on thiol-functionalised SBA-15 mesoporous molecular sieve. Physical Chemistry Chemical Physics, 2001, 3, 2983-2985.	2.8	219
6	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
7	Heterogeneous Catalysis Mediated Cofactor NADH Regeneration for Enzymatic Reduction. ACS Catalysis, 2016, 6, 1880-1886.	11.2	99
8	Enzyme-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
9	Designed Multifunctional Nanocomposites for Biomedical Applications. Advanced Functional Materials, 2010, 20, 1599-1609.	14.9	70
10	Multifunctional Fe ₃ O ₄ nanoparticles for targeted bi-modal imaging of pancreatic cancer. Journal of Materials Chemistry, 2011, 21, 12650.	6.7	62
11	Preparation and characterization of polyethylenimine-coated Fe ₃ O ₄ -MCM48 nanocomposite particles as a novel agent for magnet-assisted transfection. Journal of Biomedical Materials Research - Part A, 2010, 92A, 386-392.	4.0	60
12	Fe ₃ O ₄ -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
13	“Stealth” 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
14	The effect of platinum on the performance of WO ₃ nanocrystal photocatalysts for the oxidation of Methyl Orange and isopropanol. Journal of Chemical Technology and Biotechnology, 2011, 86, 1018-1023.	3.2	49
15	Sustainable CO ₂ Adsorbents Prepared by Coating Chitosan onto Mesoporous Silicas for Large-scale Carbon Capture Technology. Energy Technology, 2015, 3, 249-258.	3.8	49
16	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
17	Simulated biological fluids – 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
18	Differences in magnetic particle uptake by CNS neuroglial subclasses: implications for neural tissue engineering. Nanomedicine, 2013, 8, 951-968.	3.3	37

#	ARTICLE	IF	CITATIONS
19	Engineering the multifunctional surface on magnetic nanoparticles for targeted biomedical applications: a chemical approach. <i>Nanomedicine</i> , 2011, 6, 1429-1446.	3.3	36
20	Aminated poly(vinyl chloride) solid state adsorbents with hydrophobic function for post-combustion CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11864-11872.	10.3	35
21	Increasing magnetite contents of polymeric magnetic particles dramatically improves labeling of neural stem cell transplant populations. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 19-29.	3.3	33
22	Effect of novel antibacterial gallium-carboxymethyl cellulose on <i>Pseudomonas aeruginosa</i> . <i>Dalton Transactions</i> , 2013, 42, 1778-1786.	3.3	30
23	Localization of Coated Iron Oxide (Fe ₃ O ₄) Nanoparticles on Tomato Seeds and Their Effects on Growth. <i>ACS Applied Bio Materials</i> , 2020, 3, 4109-4117.	4.6	28
24	Hydrogen-Free Hydrogenation of Nitrobenzene Over Cu/SiO ₂ Via Coupling with 2-Butanol Dehydrogenation. <i>Topics in Catalysis</i> , 2015, 58, 149-158.	2.8	23
25	Recent developments on magnetic molecular imprinted polymers (MMIPs) for sensing, capturing, and monitoring pharmaceutical and agricultural pollutants. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 1151-1160.	3.2	22
26	On-line fluorescent monitoring of the degradation of polymeric scaffolds for tissue engineering. <i>Analyst</i> , 2005, 130, 1502.	3.5	20
27	Multi-responsive polymer-stabilized magnetic engineered emulsions as liquid-based switchable magneto-responsive actuators. <i>Soft Matter</i> , 2011, 7, 4335.	2.7	18
28	Chemical Grafting of a DNA Intercalator Probe onto Functional Iron Oxide Nanoparticles: A Physicochemical Study. <i>Langmuir</i> , 2011, 27, 6185-6192.	3.5	18
29	Antimicrobial Properties of Gallium(III)- and Iron(III)-Loaded Polysaccharides Affecting the Growth of <i>Escherichia coli</i> , <i>Staphylococcus aureus</i> , and <i>Pseudomonas aeruginosa</i> , In Vitro. <i>ACS Applied Bio Materials</i> , 2020, 3, 7589-7597.	4.6	16
30	Comprehensive Study of DNA Binding on Iron(II,III) Oxide Nanoparticles with a Positively Charged Polyamine Three-Dimensional Coating. <i>Langmuir</i> , 2013, 29, 11354-11365.	3.5	15
31	Novel Magnetite-Silica Nanocomposite (Fe ₃ O ₄ -SBA-15) Particles for DNA Binding and Gene Delivery Aided by a Magnet Array. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 3586-3591.	0.9	14
32	The Principle and Architectures of Optical Stress Sensors and the Progress on the Development of Microbend Optical Sensors. <i>Advanced Optical Materials</i> , 2021, 9, 2001693.	7.3	13
33	Magnetic nanoparticles for oligodendrocyte precursor cell transplantation therapies: progress and challenges. <i>Molecular and Cellular Therapies</i> , 2014, 2, 23.	0.2	10
34	Tri-modal imaging of gold-dotted magnetic nanoparticles for magnetic resonance imaging, computed tomography and intravascular ultrasound: an in vitro study. <i>Nanomedicine</i> , 2020, 15, 2433-2445.	3.3	10
35	Preparation and Characterization of Iron Oxide-Silica Composite Particles Using Mesoporous SBA-15 Silica as Template and Their Internalization Into Mesenchymal Stem Cell and Human Bone Cell Lines. <i>IEEE Transactions on Nanobioscience</i> , 2010, 9, 165-170.	3.3	8
36	Synthesis of Conductive Carbon Aerogels Decorated with β -Tricalcium Phosphate Nanocrystallites. <i>Scientific Reports</i> , 2020, 10, 5758.	3.3	8

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37	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
38	Enzyme immobilization on magnetic nanoparticle supports for enhanced separation and recycling of catalysts. , 2022, , 301-321.		7
39	NANOPOROUS MATERIALS AS SUPPORTS FOR ENZYME IMMOBILIZATION. Series on Chemical Engineering, 2004, , 849-872.	0.2	4
40	Biological applications of organically functionalised mesoporous molecular sieves and related materials. Studies in Surface Science and Catalysis, 2003, 146, 581-584.	1.5	3
41	How can nanoparticles help neural cell transplantation therapy?. Nanomedicine, 2020, 15, 2103-2106.	3.3	1
42	In focus: latest development of nanotechnology in Latin America. Journal of Chemical Technology and Biotechnology, 2021, 96, 2093-2094.	3.2	1
43	Investigation into the Use of Microfluidics in the Manufacture of Metallic Gold-Coated Iron Oxide Hybrid Nanoparticles. Nanomaterials, 2021, 11, 2976.	4.1	1