Edmond Lam

List of Publications by Year
in descending order

31 papers	2,935 citations	361045 20 h-index	454577 30 g-index
35 all docs	35 docs citations	35 times ranked	4755 citing authors

#	Article	IF	Citations
1	Carbon Materials as Catalyst Supports and Catalysts in the Transformation of Biomass to Fuels and Chemicals. ACS Catalysis, 2014, 4, 3393-3410.	5.5	523
2	Characteristics and Properties of Carboxylated Cellulose Nanocrystals Prepared from a Novel Oneâ€Step Procedure. Small, 2011, 7, 302-305.	5.2	403
3	Applications of functionalized and nanoparticle-modified nanocrystalline cellulose. Trends in Biotechnology, 2012, 30, 283-290.	4.9	366
4	Immobilization of Antibodies and Enzymes on 3-Aminopropyltriethoxysilane-Functionalized Bioanalytical Platforms for Biosensors and Diagnostics. Chemical Reviews, 2014, 114, 11083-11130.	23.0	263
5	Catalysis using gold nanoparticles decorated on nanocrystalline cellulose. Nanoscale, 2012, 4, 997.	2.8	178
6	Carbocatalytic dehydration of xylose to furfural in water. Carbon, 2012, 50, 1033-1043.	5.4	154
7	New Insights into the Interactions of Serum Proteins with Bis(maltolato)oxovanadium(IV):â€‰ Transport and Biotransformation of Insulin-Enhancing Vanadium Pharmaceuticals. Journal of the American Chemical Society, 2005, 127, 5104-5115.	6.6	150
8	Synthesis of Furfural from Xylose by Heterogeneous and Reusable Nafion Catalysts. ChemSusChem, 2011, 4, 535-541.	3.6	108
9	One-step antibody immobilization-based rapid and highly-sensitive sandwich ELISA procedure for potential in vitro diagnostics. Scientific Reports, 2014, 4, 4407.	1.6	106
10	Preparation of Well-Dispersed Gold/Magnetite Nanoparticles Embedded on Cellulose Nanocrystals for Efficient Immobilization of Papain Enzyme. ACS Applied Materials & Interfaces, 2013, 5, 4978-4985.	4.0	104
11	Recent advances in electrochemical detection of arsenic in drinking and ground waters. Analytical Methods, 2014, 6, 6157-6169.	1.3	79
12	Chitin and chitosan on the nanoscale. Nanoscale Horizons, 2021, 6, 505-542.	4.1	76
13	Graphene versus Multi-Walled Carbon Nanotubes for Electrochemical Glucose Biosensing. Materials, 2013, 6, 1011-1027.	1.3	69
14	Green Strategy Guided by Raman Spectroscopy for the Synthesis of Ammonium Carboxylated Nanocrystalline Cellulose and the Recovery of Byproducts. ACS Sustainable Chemistry and Engineering, 2013, 1, 278-283.	3.2	57
15	Reinforced plastics and aerogels by nanocrystalline cellulose. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	45
16	2-Indolylphosphines, a New Class of Tunable Ligands:â€‰ Their Synthesis, Facile Derivatization, and Coordination to Palladium(II). Organometallics, 2005, 24, 37-47.	1.1	29
17	Carboxylated Chitosan Nanocrystals: A Synthetic Route and Application as Superior Support for Gold-Catalyzed Reactions. Biomacromolecules, 2020, 21, 2236-2245.	2.6	29
18	Preparation and Surface Functionalization of Carboxylated Cellulose Nanocrystals. Nanomaterials, 2021, 11, 1641.	1.9	28

#	Article	IF	Citations
19	Immunogenic and efficacious SARS-CoV-2 vaccine based on resistin-trimerized spike antigen SmT1 and SLA archaeosome adjuvant. Scientific Reports, 2021, 11, 21849.	1.6	26
20	Mechanochemical Transformations of Biomass into Functional Materials. ChemSusChem, 2022, 15, .	3.6	25
21	Wood-based cellulose nanocrystals as adsorbent of cationic toxic dye, Auramine O, for water treatment. Journal of Environmental Chemical Engineering, 2020, 8, 104187.	3.3	22
22	Reactions of 2-indolylphosphines with Ru3(CO)12: cluster capping with Î¼3,Î·2-indolylphosphine as an anionic six-electron P,N-donor ligand. Dalton Transactions, 2004, , 3383-3388.	1.6	20
23	Chitosan nanocrystals synthesis via aging and application towards alginate hydrogels for sustainable drug release. Green Chemistry, 2021, 23, 6527-6537.	4.6	16
24	Mechanistic insight into the induction of cellular immune responses by encapsulated and admixed archaeosome-based vaccine formulations. Human Vaccines and Immunotherapeutics, 2020, 16, 2183-2195.	1.4	14
25	Palladium nanoparticles supported on chitin-based nanomaterials as heterogeneous catalysts for the Heck coupling reaction. Beilstein Journal of Organic Chemistry, 2020, 16, 2477-2483.	1.3	10
26	The Synergistic Effects of Sulfated Lactosyl Archaeol Archaeosomes When Combined with Different Adjuvants in a Murine Model. Pharmaceutics, 2021, 13, 205.	2.0	9
27	Noninvasive Cell-Based Impedance Spectroscopy for Real-Time Probing Inhibitory Effects of Graphene Derivatives. ACS Applied Materials & Interfaces, 2012, 4, 3643-3649.	4.0	8
28	Sulfated Lactosyl Archaeol Archaeosomes Synergize with Poly(I:C) to Enhance the Immunogenicity and Efficacy of a Synthetic Long Peptide-Based Vaccine in a Melanoma Tumor Model. Pharmaceutics, 2021, 13, 257.	2.0	7
29	A meta-analysis of pulse-protein extraction technologies: Impact on recovery and purity. Journal of Food Engineering, 2022, 327, 111048.	2.7	6
30	Effect of 3-Aminopropyltriethoxysilane on the Electrocatalysis of Carbon Nanotubes for Reagentless Glucose Biosensing. Journal of Nanopharmaceutics and Drug Delivery, 2013, 1, 64-73.	0.3	3
31	Effect of Chiral Purity on Adjuvanticity of Archaeol-Based Glycolipids. Journal of Medicinal Chemistry, 0, , .	2.9	2