

Dibyendu Mukherjee

List of Publications by Year in descending order

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36
papers

854
citations

394421

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docs citations

40
times ranked

1009
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#	ARTICLE	IF	CITATIONS
1	PtCo/CoO x nanocomposites: Bifunctional electrocatalysts for oxygen reduction and evolution reactions synthesized via tandem laser ablation synthesis in solution-galvanic replacement reactions. <i>Applied Catalysis B: Environmental</i> , 2016, 182, 286-296.	20.2	99
2	Tandem laser ablation synthesis in solution-galvanic replacement reaction (LASIS-GRR) for the production of PtCo nanoalloys as oxygen reduction electrocatalysts. <i>Journal of Power Sources</i> , 2016, 306, 413-423.	7.8	63
3	A facile route for the synthesis of nanostructured oxides and hydroxides of cobalt using laser ablation synthesis in solution (LASIS). <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24034-24044.	2.8	49
4	A facile and surfactant-free route for nanomanufacturing of tailored ternary nanoalloys as superior oxygen reduction reaction electrocatalysts. <i>Catalysis Science and Technology</i> , 2017, 7, 2074-2086.	4.1	45
5	Calibration-free quantitative analysis of elemental ratios in intermetallic nanoalloys and nanocomposites using Laser Induced Breakdown Spectroscopy (LIBS). <i>Talanta</i> , 2017, 164, 330-340.	5.5	44
6	Graphitic coated Al nanoparticles manufactured as superior energetic materials via laser ablation synthesis in organic solvents. <i>Applied Surface Science</i> , 2019, 473, 156-163.	6.1	44
7	Hybrid nanocomposites of nanostructured Co ₃ O ₄ interfaced with reduced/nitrogen-doped graphene oxides for selective improvements in electrocatalytic and/or supercapacitive properties. <i>RSC Advances</i> , 2017, 7, 33166-33176.	3.6	41
8	Controlling the Morphology of Photosystem I Assembly on Thiol-Activated Au Substrates. <i>Langmuir</i> , 2010, 26, 16048-16054.	3.5	37
9	Calibration-free quantitative analysis of thin-film oxide layers in semiconductors using laser induced breakdown spectroscopy (LIBS). <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1378-1387.	3.0	33
10	All-Printed In-Plane Supercapacitors by Sequential Additive Manufacturing Process. <i>ACS Applied Energy Materials</i> , 2020, 3, 4965-4973.	5.1	32
11	Detergent-protein interactions in aqueous buffer suspensions of Photosystem I (PS I). <i>Journal of Colloid and Interface Science</i> , 2011, 358, 477-484.	9.4	26
12	Detection of interstitial oxygen contents in Czochralski grown silicon crystals using internal calibration in laser-induced breakdown spectroscopy (LIBS). <i>Talanta</i> , 2019, 193, 192-198.	5.5	26
13	Modulation of cyanobacterial photosystem I deposition properties on alkanethiolate Au substrate by various experimental conditions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 88, 181-190.	5.0	23
14	Kinetic Monte Carlo simulation for homogeneous nucleation of metal nanoparticles during vapor phase synthesis. <i>AIChE Journal</i> , 2018, 64, 18-28.	3.6	23
15	Elucidating the role of methyl viologen as a scavenger of photoactivated electrons from photosystem I under aerobic and anaerobic conditions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8512-8521.	2.8	22
16	Quantitative analysis of carbonaceous aerosols using laser-induced breakdown spectroscopy: a study on mass loading induced plasma matrix effects. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 119-128.	3.0	21
17	Characterization of Carbon-Containing Aerosolized Drugs Using Laser-Induced Breakdown Spectroscopy. <i>Applied Spectroscopy</i> , 2008, 62, 554-562.	2.2	21
18	Lipid-Detergent Phase Transitions During Detergent-Mediated Liposome Solubilization. <i>Journal of Membrane Biology</i> , 2016, 249, 523-538.	2.1	20

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19	Plasmon-Enhanced Photocurrent from Photosystem I Assembled on Ag Nanopyramids. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 970-977.	4.6	20
20	Laser-induced synthesis of ZIF-67: a facile approach for the fabrication of crystalline MOFs with tailored size and geometry. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1302-1309.	5.9	20
21	MOF-derived PtCo/Co ₃ O ₄ nanocomposites in carbonaceous matrices as high-performance ORR electrocatalysts synthesized <i>via</i> laser ablation techniques. <i>Catalysis Science and Technology</i> , 2021, 11, 3002-3013.	4.1	19
22	Jolly green MOF: confinement and photoactivation of photosystem I in a metal-organic framework. <i>Nanoscale Advances</i> , 2019, 1, 94-104.	4.6	18
23	Microenvironment alterations enhance photocurrents from photosystem I confined in supported lipid bilayers. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12281-12290.	10.3	14
24	Tuning the photoexcitation response of cyanobacterial Photosystem I via reconstitution into Proteoliposomes. <i>Scientific Reports</i> , 2017, 7, 2492.	3.3	13
25	In vitro analysis of early calcification in aortic valvular interstitial cells using Laser-Induced Breakdown Spectroscopy (LIBS). <i>Journal of Biophotonics</i> , 2018, 11, e201600288.	2.3	10
26	An Atomistic Molecular Dynamics Study of Titanium Dioxide Adhesion to Lipid Bilayers. <i>Langmuir</i> , 2020, 36, 1043-1052.	3.5	10
27	Broadband Plasmonic Photocurrent Enhancement from Photosystem I Assembled with Tailored Arrays of Au and Ag Nanodisks. <i>ACS Applied Nano Materials</i> , 2021, 4, 1209-1219.	5.0	9
28	3D printed interdigitated supercapacitor using reduced graphene oxide-MnO _x /Mn ₃ O ₄ based electrodes. <i>RSC Advances</i> , 2022, 12, 17321-17329.	3.6	9
29	Rapid elemental composition analysis of intermetallic ternary nanoalloys using calibration-free quantitative Laser Induced Breakdown Spectroscopy (LIBS). <i>MRS Advances</i> , 2017, 2, 3371-3376.	0.9	8
30	Calibration-Free Quantitative Analysis of Lithium-Ion Battery (LiB) Electrode Materials Using Laser-Induced Breakdown Spectroscopy (LIBS). <i>ACS Applied Energy Materials</i> , 2021, 4, 7259-7267.	5.1	8
31	Impact of particle morphology on surface oxidation of nanoparticles: A kinetic Monte Carlo based study. <i>AIChE Journal</i> , 2012, 58, 3341-3353.	3.6	7
32	A new platform for development of photosystem I based thin films with superior photocurrent: TCNQ charge transfer salts derived from ZIF-8. <i>Nanoscale Advances</i> , 2020, 2, 5171-5180.	4.6	6
33	Deep Learning Models for Data-Driven Laser Induced Breakdown Spectroscopy (LIBS) Analysis of Interstitial Oxygen Impurities in Czochralski-Si Crystals. <i>Applied Spectroscopy</i> , 2022, 76, 667-677.	2.2	6
34	Tuning the photocurrent generations from photosystem I assembled in tailored biotic-abiotic interfaces. <i>MRS Communications</i> , 2018, 8, 823-829.	1.8	4
35	Computational Modeling for Fate, Transport and Evolution of Energetic Metal Nanoparticles Grown via Aerosol Route. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2017, , 271-341.	0.6	1
36	Observation of anomalous carotenoid and blind chlorophyll activations in photosystem I under synthetic membrane confinements. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022, , 183930.	2.6	0