Dibyendu Mukherjee

List of Publications by Year
in descending order

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36	854	394421	501196
papers	citations	19 h-index	28 g-index

40	40	40	1009
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deep Learning Models for Data-Driven Laser Induced Breakdown Spectroscopy (LIBS) Analysis of Interstitial Oxygen Impurities in Czochralski-Si Crystals. Applied Spectroscopy, 2022, 76, 667-677.	2.2	6
2	Observation of anomalous carotenoid and blind chlorophyll activations in photosystem I under synthetic membrane confinements. Biochimica Et Biophysica Acta - Biomembranes, 2022, , 183930.	2.6	0
3	3D printed interdigitated supercapacitor using reduced graphene oxide-MnO_x/Mn₃O₄ based electrodes. RSC Advances, 2022, 12, 17321-17329.	3.6	9
4	MOF-derived PtCo/Co₃O₄ nanocomposites in carbonaceous matrices as high-performance ORR electrocatalysts synthesized via laser ablation techniques. Catalysis Science and Technology, 2021, 11, 3002-3013.	4.1	19
5	Broadband Plasmonic Photocurrent Enhancement from Photosystem I Assembled with Tailored Arrays of Au and Ag Nanodisks. ACS Applied Nano Materials, 2021, 4, 1209-1219.	5.0	9
6	Calibration-Free Quantitative Analysis of Lithium-Ion Battery (LiB) Electrode Materials Using Laser-Induced Breakdown Spectroscopy (LIBS). ACS Applied Energy Materials, 2021, 4, 7259-7267.	5.1	8
7	A new platform for development of photosystem I based thin films with superior photocurrent: TCNQ charge transfer salts derived from ZIF-8. Nanoscale Advances, 2020, 2, 5171-5180.	4.6	6
8	An Atomistic Molecular Dynamics Study of Titanium Dioxide Adhesion to Lipid Bilayers. Langmuir, 2020, 36, 1043-1052.	3.5	10
9	All-Printed In-Plane Supercapacitors by Sequential Additive Manufacturing Process. ACS Applied Energy Materials, 2020, 3, 4965-4973.	5.1	32
10	Jolly green MOF: confinement and photoactivation of photosystem I in a metalâ€“organic framework. Nanoscale Advances, 2019, 1, 94-104.	4.6	18
11	Laser-induced synthesis of ZIF-67: a facile approach for the fabrication of crystalline MOFs with tailored size and geometry. Materials Chemistry Frontiers, 2019, 3, 1302-1309.	5.9	20
12	Graphitic coated Al nanoparticles manufactured as superior energetic materials via laser ablation synthesis in organic solvents. Applied Surface Science, 2019, 473, 156-163.	6.1	44
13	Detection of interstitial oxygen contents in Czochralski grown silicon crystals using internal calibration in laser-induced breakdown spectroscopy (LIBS). Talanta, 2019, 193, 192-198.	5.5	26
14	Plasmon-Enhanced Photocurrent from Photosystem I Assembled on Ag Nanopyramids. Journal of Physical Chemistry Letters, 2018, 9, 970-977.	4.6	20
15	Microenvironment alterations enhance photocurrents from photosystem I confined in supported lipid bilayers. Journal of Materials Chemistry A, 2018, 6, 12281-12290.	10.3	14
16	Inâ€vitro analysis of early calcification in aortic valvular interstitial cells using Laserâ€Induced Breakdown Spectroscopy (LIBS). Journal of Biophotonics, 2018, 11, e201600288.	2.3	10
17	Kinetic Monte Carlo simulation for homogeneous nucleation of metal nanoparticles during vapor phase synthesis. AICHE Journal, 2018, 64, 18-28.	3.6	23
18	Tuning the photocurrent generations from photosystem I assembled in tailored biotic-abiotic interfaces. MRS Communications, 2018, 8, 823-829.	1.8	4

#	Article	IF	Citations
19	Rapid elemental composition analysis of intermetallic ternary nanoalloys using calibration-free quantitative Laser Induced Breakdown Spectroscopy (LIBS). MRS Advances, 2017, 2, 3371-3376.	0.9	8
20	Calibration-free quantitative analysis of thin-film oxide layers in semiconductors using laser induced breakdown spectroscopy (LIBS). Journal of Analytical Atomic Spectrometry, 2017, 32, 1378-1387.	3.0	33
21	A facile and surfactant-free route for nanomanufacturing of tailored ternary nanoalloys as superior oxygen reduction reaction electrocatalysts. Catalysis Science and Technology, 2017, 7, 2074-2086.	4.1	45
22	Computational Modeling for Fate, Transport and Evolution of Energetic Metal Nanoparticles Grown via Aerosol Route. Challenges and Advances in Computational Chemistry and Physics, 2017, , 271-341.	0.6	1
23	Tuning the photoexcitation response of cyanobacterial Photosystem I via reconstitution into Proteoliposomes. Scientific Reports, 2017, 7, 2492.	3.3	13
24	Hybrid nanocomposites of nanostructured Co₃O₄interfaced with reduced/nitrogen-doped graphene oxides for selective improvements in electrocatalytic and/or supercapacitive properties. RSC Advances, 2017, 7, 33166-33176.	3.6	41
25	Calibration-free quantitative analysis of elemental ratios in intermetallic nanoalloys and nanocomposites using Laser Induced Breakdown Spectroscopy (LIBS). Talanta, 2017, 164, 330-340.	5.5	44
26	Elucidating the role of methyl viologen as a scavenger of photoactivated electrons from photosystem I under aerobic and anaerobic conditions. Physical Chemistry Chemical Physics, 2016, 18, 8512-8521.	2.8	22
27	Lipid-Detergent Phase Transitions During Detergent-Mediated Liposome Solubilization. Journal of Membrane Biology, 2016, 249, 523-538.	2.1	20
28	Tandem laser ablation synthesis in solution-galvanic replacement reaction (LASiS-GRR) for the production of PtCo nanoalloys as oxygen reduction electrocatalysts. Journal of Power Sources, 2016, 306, 413-423.	7.8	63
29	PtCo/CoO x nanocomposites: Bifunctional electrocatalysts for oxygen reduction and evolution reactions synthesized via tandem laser ablation synthesis in solution-galvanic replacement reactions. Applied Catalysis B: Environmental, 2016, 182, 286-296.	20.2	99
30	A facile route for the synthesis of nanostructured oxides and hydroxides of cobalt using laser ablation synthesis in solution (LASIS). Physical Chemistry Chemical Physics, 2014, 16, 24034-24044.	2.8	49
31	Impact of particle morphology on surface oxidation of nanoparticles: A kinetic Monte Carlo based study. AICHE Journal, 2012, 58, 3341-3353.	3.6	7
32	Modulation of cyanobacterial photosystem I deposition properties on alkanethiolate Au substrate by various experimental conditions. Colloids and Surfaces B: Biointerfaces, 2011, 88, 181-190.	5.0	23
33	Detergentâ€“protein interactions in aqueous buffer suspensions of Photosystem I (PS I). Journal of Colloid and Interface Science, 2011, 358, 477-484.	9.4	26
34	Controlling the Morphology of Photosystem I Assembly on Thiol-Activated Au Substrates. Langmuir, 2010, 26, 16048-16054.	3.5	37
35	Quantitative analysis of carbonaceous aerosols using laser-induced breakdown spectroscopy: a study on mass loading induced plasma matrix effects. Journal of Analytical Atomic Spectrometry, 2008, 23, 119-128.	3.0	21
36	Characterization of Carbon-Containing Aerosolized Drugs Using Laser-Induced Breakdown Spectroscopy. Applied Spectroscopy, 2008, 62, 554-562.	2.2	21