

Shibdas Banerjee

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,937
citations

393982

19
h-index

315357

38
g-index

39
all docs

39
docs citations

39
times ranked

2303
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrospray Ionization Mass Spectrometry: A Technique to Access the Information beyond the Molecular Weight of the Analyte. <i>International Journal of Analytical Chemistry</i> , 2012, 2012, 1-40.	0.4	377
2	Acceleration of reaction in charged microdroplets. <i>Quarterly Reviews of Biophysics</i> , 2015, 48, 437-444.	2.4	204
3	Diagnosis of prostate cancer by desorption electrospray ionization mass spectrometric imaging of small metabolites and lipids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3334-3339.	3.3	174
4	Potassium <i>tert</i> -Butoxide-Catalyzed Dehydrogenative C-H Silylation of Heteroaromatics: A Combined Experimental and Computational Mechanistic Study. <i>Journal of the American Chemical Society</i> , 2017, 139, 6867-6879.	6.6	160
5	Syntheses of Isoquinoline and Substituted Quinolines in Charged Microdroplets. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14795-14799.	7.2	158
6	Can all bulk-phase reactions be accelerated in microdroplets?. <i>Analyst</i> , 2017, 142, 1399-1402.	1.7	133
7	Ionic and Neutral Mechanisms for C-H Bond Silylation of Aromatic Heterocycles Catalyzed by Potassium <i>tert</i> -Butoxide. <i>Journal of the American Chemical Society</i> , 2017, 139, 6880-6887.	6.6	111
8	Site-selective bromination of sp^3 C-H bonds. <i>Chemical Science</i> , 2018, 9, 100-104.	3.7	61
9	Empowering Clinical Diagnostics with Mass Spectrometry. <i>ACS Omega</i> , 2020, 5, 2041-2048.	1.6	55
10	A Study of Heterogeneous Catalysis by Nanoparticle-Embedded Paper-Spray Ionization Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12807-12811.	7.2	47
11	Mechanistic analysis of a copper-catalyzed C-H oxidative cyclization of carboxylic acids. <i>Chemical Science</i> , 2017, 8, 7003-7008.	3.7	34
12	1,4-Benzoquinone antimicrobial agents against <i>Staphylococcus aureus</i> and <i>Mycobacterium tuberculosis</i> derived from scorpion venom. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12642-12647.	3.3	34
13	Evidence of Molecular Fragmentation inside the Charged Droplets Produced by Electrospray Process. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1707-17.	1.2	32
14	Aqueous Microdroplets Capture Elusive Carbocations. <i>Journal of the American Chemical Society</i> , 2021, 143, 2459-2463.	6.6	28
15	Ambient ionization mass spectrometry imaging for disease diagnosis: Excitements and challenges. <i>Journal of Biosciences</i> , 2018, 43, 731-738.	0.5	27
16	Influence of Inlet Capillary Temperature on the Microdroplet Chemistry Studied by Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7704-7709.	1.1	24
17	Destabilized Carbocations Caged in Water Microdroplets: Isolation and Real-Time Detection of \dot{C}^+ Carbonyl Cation Intermediates. <i>Journal of the American Chemical Society</i> , 2022, 144, 3347-3352.	6.6	24
18	Induction of protein conformational change inside the charged electrospray droplet. <i>Journal of Mass Spectrometry</i> , 2013, 48, 193-204.	0.7	23

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19	Development of electrochemical sensors for nano scale Tb(III) ion determination based on pendant macrocyclic ligands. <i>Analytica Chimica Acta</i> , 2009, 633, 109-118.	2.6	17
20	Non-covalent dimers of the lysine containing protonated peptide ions in gaseous state: electrospray ionization mass spectrometric study. <i>Journal of Mass Spectrometry</i> , 2010, 45, 1212-1219.	0.7	17
21	An Alkaloid from Scorpion Venom: Chemical Structure and Synthesis. <i>Journal of Natural Products</i> , 2018, 81, 1899-1904.	1.5	17
22	Pomeranz-Fritsch Synthesis of Isoquinoline: Gas-Phase Collisional Activation Opens Additional Reaction Pathways. <i>Journal of the American Chemical Society</i> , 2017, 139, 14352-14355.	6.6	15
23	Oxygenation of Monoenoic Fatty Acids by CYP175A1, an Orphan Cytochrome P450 from <i>Thermus thermophilus</i> HB27. <i>Biochemistry</i> , 2012, 51, 7880-7890.	1.2	14
24	Mass Spectrometry Imaging Deciphers Dysregulated Lipid Metabolism in the Human Hippocampus Affected by Temporal Lobe Epilepsy. <i>ACS Chemical Neuroscience</i> , 2021, 12, 4187-4194.	1.7	13
25	Capturing Reactive Carbanions by Microdroplets. <i>Journal of the American Chemical Society</i> , 2022, 144, 7573-7577.	6.6	13
26	Peroxydisulfate as an Oxidant in the Site-Selective Functionalization of sp^3 C-H Bonds. <i>ChemistrySelect</i> , 2017, 2, 10678-10688.	0.7	12
27	Early detection of unilateral ureteral obstruction by desorption electrospray ionization mass spectrometry. <i>Scientific Reports</i> , 2019, 9, 11007.	1.6	12
28	Assessment of Metabolic Signature for Cancer Diagnosis Using Desorption Electrospray Ionization Mass Spectrometric Imaging. <i>Methods in Molecular Biology</i> , 2019, 1928, 275-297.	0.4	11
29	Chemical analysis of the human brain by imaging mass spectrometry. <i>Analyst, The</i> , 2021, 146, 5451-5473.	1.7	11
30	Synthesis, photophysical, electrochemical and thermal studies on carbazole-based acceptor molecules for heterojunction solar cell. <i>Thin Solid Films</i> , 2012, 520, 2644-2650.	0.8	6
31	Mapping Protein Structural Evolution upon Unfolding. <i>Biochemistry</i> , 2022, 61, 303-309.	1.2	6
32	Role of substituents on the reactivity and product selectivity in reactions of naphthalene derivatives catalyzed by the orphan thermostable cytochrome P450, CYP175A1. <i>Bioorganic Chemistry</i> , 2015, 62, 94-105.	2.0	5
33	A Study of Heterogeneous Catalysis by Nanoparticle-Embedded Paper-Spray Ionization Mass Spectrometry. <i>Angewandte Chemie</i> , 2016, 128, 12999-13003.	1.6	5
34	Selective Deletion of the Internal Lysine Residue from the Peptide Sequence by Collisional Activation. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 1967-1980.	1.2	4
35	Copper-induced spectroscopic and structural changes in short peptides derived from azurin. <i>Archives of Biochemistry and Biophysics</i> , 2020, 687, 108388.	1.4	4
36	Ambient ionization mass spectrometry imaging for disease diagnosis: Excitements and challenges. <i>Journal of Biosciences</i> , 2018, 43, 731-738.	0.5	4

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37	Mechanistic insights of Cu(II)-mediated <i>ortho</i> -C-H amination of arenes by capturing fleeting intermediates and theoretical calculations. <i>Chemical Communications</i> , 2019, 55, 9359-9362.	2.2	3