

Priyanka Bhattacharya

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

7,181
citations

279798

23
h-index

501196

28
g-index

30
all docs

30
docs citations

30
times ranked

8444
citing authors

#	ARTICLE	IF	CITATIONS
1	Reversible aqueous zinc/manganese oxide energy storage from conversion reactions. Nature Energy, 2016, 1, .	39.5	2,186
2	High rate and stable cycling of lithium metal anode. Nature Communications, 2015, 6, 6362.	12.8	1,954
3	Physical Adsorption of Charged Plastic Nanoparticles Affects Algal Photosynthesis. Journal of Physical Chemistry C, 2010, 114, 16556-16561.	3.1	673
4	Failure Mechanism for Fast-Charged Lithium Metal Batteries with Liquid Electrolytes. Advanced Energy Materials, 2015, 5, 1400993.	19.5	540
5	Dendrite-Free Lithium Deposition with Self-Aligned Nanorod Structure. Nano Letters, 2014, 14, 6889-6896.	9.1	326
6	Dendrite-free Li deposition using trace-amounts of water as an electrolyte additive. Nano Energy, 2015, 15, 135-144.	16.0	297
7	Enhanced charging capability of lithium metal batteries based on lithium bis(trifluoromethanesulfonyl)imide-lithium bis(oxalato)borate dual-salt electrolytes. Journal of Power Sources, 2016, 318, 170-177.	7.8	186
8	Polyamidoamine dendrimer-based binders for high-loading lithium-sulfur battery cathodes. Nano Energy, 2016, 19, 176-186.	16.0	132
9	Effect of the Anion Activity on the Stability of Li Metal Anodes in Lithium-Sulfur Batteries. Advanced Functional Materials, 2016, 26, 3059-3066.	14.9	117
10	Effects of Quantum Dots Adsorption on Algal Photosynthesis. Journal of Physical Chemistry C, 2009, 113, 10962-10966.	3.1	77
11	Effects of structural defects on the electrochemical activation of Li ₂ MnO ₃ . Nano Energy, 2015, 16, 143-151.	16.0	73
12	The Mechanisms of Oxygen Reduction and Evolution Reactions in Nonaqueous Lithium-Oxygen Batteries. ChemSusChem, 2014, 7, 2436-2440.	6.8	62
13	Dendrimer-Encapsulated Ruthenium Oxide Nanoparticles as Catalysts in Lithium-Oxygen Batteries. Advanced Functional Materials, 2014, 24, 7510-7519.	14.9	59
14	Interaction of lipid vesicle with silver nanoparticle-serum albumin protein corona. Applied Physics Letters, 2012, 100, 13703-137034.	3.3	54
15	In vitro toxicity of silver nanoparticles to kiwifruit pollen exhibits peculiar traits beyond the cause of silver ion release. Environmental Pollution, 2013, 179, 258-267.	7.5	54
16	Molecular-confinement of polysulfides within mesoscale electrodes for the practical application of lithium sulfur batteries. Nano Energy, 2015, 13, 267-274.	16.0	50
17	Bioinspired nanoscale materials for biomedical and energy applications. Journal of the Royal Society Interface, 2014, 11, 20131067.	3.4	45
18	Formation of Interfacial Layer and Long-Term Cyclability of Li-O ₂ Batteries. ACS Applied Materials & Interfaces, 2014, 6, 14141-14151.	8.0	44

#	ARTICLE	IF	CITATIONS
19	Universal, geometry-driven hydrophobic behaviour of bare metal nanowire clusters. Nanotechnology, 2008, 19, 075709.	2.6	40
20	PAMAM Dendrimers and Graphene: Materials for Removing Aromatic Contaminants from Water. Environmental Science & Technology, 2015, 49, 4490-4497.	10.0	40
21	Fluorescence resonance energy transfer between phenanthrene and PAMAM dendrimers. Physical Chemistry Chemical Physics, 2010, 12, 9285.	2.8	35
22	In-situ Grown ZnCo ₂ O ₄ on Single-Walled Carbon Nanotubes as Air Electrode Materials for Rechargeable Lithium-Oxygen Batteries. ChemSusChem, 2015, 8, 3697-3703.	6.8	34
23	Exploiting the physicochemical properties of dendritic polymers for environmental and biological applications. Physical Chemistry Chemical Physics, 2013, 15, 4477.	2.8	29
24	PAMAM dendrimer for mitigating humic foulant. RSC Advances, 2012, 2, 7997.	3.6	17
25	Understanding dendritic polymer-hydrocarbon interactions for oil dispersion. RSC Advances, 2012, 2, 9371.	3.6	16
26	Dendrimer-Encapsulated Fullerene Soft-Condensed Nanoassembly. Journal of Physical Chemistry C, 2012, 116, 15775-15781.	3.1	16
27	A Tris-Dendrimer for Hosting Diverse Chemical Species. Journal of Physical Chemistry C, 2011, 115, 12789-12796.	3.1	14
28	Copper detection utilizing dendrimer and gold nanowire-induced surface plasmon resonance. Journal of Applied Physics, 2011, 109, 014911.	2.5	6
29	Binding of nanoplastics onto a cellulose film. , 2010, , .		5
30	Hybrid Electrolyte and Bi-Functional Cathode Binder for Lithium-Sulfur Batteries. ECS Meeting Abstracts, 2016, , .	0.0	0