

Barun Kumar Barman

List of Publications by Year in descending order

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papers

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516215

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1296
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#	ARTICLE	IF	CITATIONS
1	Prussian blue as a single precursor for synthesis of Fe/Fe ₃ C encapsulated N-doped graphitic nanostructures as bi-functional catalysts. <i>Green Chemistry</i> , 2016, 18, 427-432.	4.6	152
2	Pd-coated Ru nanocrystals supported on N-doped graphene as HER and ORR electrocatalysts. <i>Chemical Communications</i> , 2019, 55, 13928-13931.	2.2	51
3	CoFe Nanoalloys Encapsulated in N-Doped Graphene Layers as a Pt-Free Multifunctional Robust Catalyst: Elucidating the Role of Co-Alloying and N-Doping. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12736-12745.	3.2	50
4	Facile synthesis of ultrafine Ru nanocrystal supported N-doped graphene as an exceptional hydrogen evolution electrocatalyst in both alkaline and acidic media. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1028-1033.	2.5	46
5	The dual role of Zn ²⁺ acid medium for one-step rapid synthesis of M@rGO (M = Au, Pt, Pd and Ag) hybrid nanostructures at room temperature. <i>Chemical Communications</i> , 2013, 49, 8949.	2.2	45
6	Non-Precious Bimetallic CoCr Nanostructures Entrapped in Bamboo-Like Nitrogen-Doped Graphene Tube As a Robust Bifunctional Electrocatalyst for Total Water Splitting. <i>ACS Applied Energy Materials</i> , 2018, 1, 1116-1126.	2.5	41
7	Facile and one-step synthesis of a free-standing 3D MoS ₂ @rGO/Mo binder-free electrode for efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18081-18087.	5.2	39
8	Dual roles of a transparent polymer film containing dispersed N-doped carbon dots: A high-efficiency blue light converter and UV screen. <i>Applied Surface Science</i> , 2020, 510, 145405.	3.1	36
9	Excellent performance of Pt-free cathode in alkaline direct methanol fuel cell at room temperature. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3133.	5.2	35
10	Instantaneous reduction of graphene oxide at room temperature. <i>RSC Advances</i> , 2013, 3, 12621.	1.7	34
11	A noble and single source precursor for the synthesis of metal-rich sulphides embedded in an N-doped carbon framework for highly active OER electrocatalysts. <i>Dalton Transactions</i> , 2016, 45, 6352-6356.	1.6	33
12	In Situ Decoration of Ultrafine Ru Nanocrystals on N-Doped Graphene Tube and Their Applications as Oxygen Reduction and Hydrogen Evolution Catalyst. <i>ACS Applied Energy Materials</i> , 2019, 2, 7330-7339.	2.5	32
13	Carbon Dot/Cellulose-Based Transparent Films for Efficient UV and High-Energy Blue Light Screening. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9879-9890.	3.2	28
14	Three-Dimensional Nitrogen-Doped Graphitic Carbon-Encapsulated MnO-Co Heterostructure: A Bifunctional Energy Storage Material for Zn-Ion and Zn ²⁺ Air Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 10108-10118.	2.5	26
15	Uninterrupted galvanic reaction for scalable and rapid synthesis of metallic and bimetallic sponges/dendrites as efficient catalysts for 4-nitrophenol reduction. <i>Dalton Transactions</i> , 2015, 44, 4215-4222.	1.6	25
16	Nitrogen and phosphorous co-doped graphitic carbon encapsulated ultrafine OsP ₂ nanoparticles: a pH universal highly durable catalyst for hydrogen evolution reaction. <i>Chemical Communications</i> , 2019, 55, 4399-4402.	2.2	22
17	Hexamethylenetetramine mediated simultaneous nitrogen doping and reduction of graphene oxide for a metal-free SERS substrate. <i>RSC Advances</i> , 2014, 4, 44146-44150.	1.7	17
18	Ruthenium nanodendrites on reduced graphene oxide: an efficient water and 4-nitrophenol reduction catalyst. <i>New Journal of Chemistry</i> , 2021, 45, 1556-1564.	1.4	13

#	ARTICLE	IF	CITATIONS
19	Transparent Hard Coatings with SiON-Encapsulated N-Doped Carbon Dots for Complete UV Blocking and White Light Emission. ACS Applied Electronic Materials, 2021, 3, 3761-3773.	2.0	13
20	Ultrafast-Versatile-Domestic-Microwave-Oven Based Graphene Oxide Reactor for the Synthesis of Highly Efficient Graphene Based Hybrid Electrocatalysts. ACS Sustainable Chemistry and Engineering, 2018, 6, 4037-4045.	3.2	11
21	Si-mediated fabrication of reduced graphene oxide and its hybrids for electrode materials. Green Chemistry, 2015, 17, 776-780.	4.6	4