

Robert Baines

List of Publications by Year in descending order

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18
papers

1,178
citations

516710

16
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839539

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docs citations

18
times ranked

2617
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface functionalization of two-dimensional metal chalcogenides by Lewis acid–base chemistry. <i>Nature Nanotechnology</i> , 2016, 11, 465-471.	31.5	197
2	Controlled synthesis of Mo-doped Ni ₃ S ₂ nano-rods: an efficient and stable electro-catalyst for water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1595-1602.	10.3	148
3	Controlled Electrodeposition Synthesis of Co–Ni–P Film as a Flexible and Inexpensive Electrode for Efficient Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31887-31896.	8.0	116
4	Dual-Functional Starfish-like P-Doped Co–Ni–S Nanosheets Supported on Nickel Foams with Enhanced Electrochemical Performance and Excellent Stability for Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7087-7095.	8.0	103
5	Cobalt-Doped FeSe ₂ -RGO as Highly Active and Stable Electrocatalysts for Hydrogen Evolution Reactions. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18036-18042.	8.0	96
6	Reconfigurable soft body trajectories using unidirectionally stretchable composite laminae. <i>Nature Communications</i> , 2019, 10, 3464.	12.8	71
7	Integrated Energy Aerogel of N,S-rGO/WSe ₂ /NiFe-LDH for Both Energy Conversion and Storage. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32756-32766.	8.0	68
8	Straightforward synthesis of hierarchical Co ₃ O ₄ @CoWO ₄ /rGO core–shell arrays on Ni as hybrid electrodes for asymmetric supercapacitors. <i>Ceramics International</i> , 2016, 42, 10719-10725.	4.8	64
9	Construction of three-dimensional CuCo ₂ S ₄ /CNT/graphene nanocomposite for high performance supercapacitors. <i>RSC Advances</i> , 2016, 6, 13456-13460.	3.6	53
10	Surface Tension Components Ratio: An Efficient Parameter for Direct Liquid Phase Exfoliation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9168-9175.	8.0	45
11	Novel FeNi ₂ S ₄ /TMD-based ternary composites for supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8844-8850.	10.3	43
12	Reprogrammable soft actuation and shape-shifting via tensile jamming. <i>Science Advances</i> , 2021, 7, eabh2073.	10.3	41
13	Anion-exchange engineering of cookie-like Bi ₂ S ₃ /Bi ₂ MoO ₆ heterostructure for enhanced photocatalytic activities and gas-sensing properties. <i>Talanta</i> , 2017, 165, 44-51.	5.5	30
14	Layer-by-layer self-assembly of polyelectrolyte functionalized MoS ₂ nanosheets. <i>Nanoscale</i> , 2016, 8, 9641-9647.	5.6	28
15	Template-free solvothermal preparation of ternary FeNi ₂ S ₄ hollow balloons as RuO ₂ -like efficient electrocatalysts for the oxygen evolution reaction with superior stability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19417-19424.	10.3	26
16	Magnetic Core–Shell to Yolk–Shell Structures in Palladium-Catalyzed Suzuki–Miyaura Reactions: Heterogeneous versus Homogeneous Nature. <i>ChemPlusChem</i> , 2016, 81, 564-573.	2.8	23
17	Insight into In Situ Amphiphilic Functionalization of Few-Layered Transition Metal Dichalcogenide Nanosheets. <i>Advanced Materials</i> , 2016, 28, 8469-8476.	21.0	16
18	Simultaneous Preparation and Functionalization of 2D Materials Assisted by Amphiphilic MoS ₂ Nanosheets. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600847.	3.7	10