

Ibrahim Saana Amiinu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	From 3D ZIF Nanocrystals to Co-N/C Nanorod Array Electrocatalysts for ORR, OER, and Zn-Air Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1704638.	14.9	708
2	Multifunctional Mo-N/C@MoS ₂ Electrocatalysts for HER, OER, ORR, and Zn-Air Batteries. <i>Advanced Functional Materials</i> , 2017, 27, 1702300.	14.9	658
3	RuP ₂ -Based Catalysts with Platinum-like Activity and Higher Durability for the Hydrogen Evolution Reaction at All pH-Values. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11559-11564.	13.8	564
4	Carbon Nanosheets Containing Discrete Co-N-B-C Active Sites for Efficient Oxygen Electrocatalysis and Rechargeable Zn-Air Batteries. <i>ACS Nano</i> , 2018, 12, 1894-1901.	14.6	419
5	A universal synthesis strategy for P-rich noble metal diphosphide-based electrocatalysts for the hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2019, 12, 952-957.	30.8	397
6	2D Dual-Metal Zeolitic-Imidazolate Framework (ZIF)-Derived Bifunctional Air Electrodes with Ultrahigh Electrochemical Properties for Rechargeable Zinc-Air Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1705048.	14.9	361
7	Transition-Metal Phosphides: Activity Origin, Energy-Related Electrocatalysis Applications, and Synthetic Strategies. <i>Advanced Functional Materials</i> , 2020, 30, 2004009.	14.9	309
8	Effects of Intrinsic Pentagon Defects on Electrochemical Reactivity of Carbon Nanomaterials. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3859-3864.	13.8	253
9	A universal synthesis strategy for single atom dispersed cobalt/metal clusters heterostructure boosting hydrogen evolution catalysis at all pH values. <i>Nano Energy</i> , 2019, 59, 472-480.	16.0	202
10	Phytic acid-derivative transition metal phosphides encapsulated in N,P-codoped carbon: an efficient and durable hydrogen evolution electrocatalyst in a wide pH range. <i>Nanoscale</i> , 2017, 9, 3555-3560.	5.6	201
11	Iron-Doped Nickel Phosphide Nanosheet Arrays: An Efficient Bifunctional Electrocatalyst for Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 26001-26007.	8.0	200
12	General Strategy for the Synthesis of Transition-Metal Phosphide/N-Doped Carbon Frameworks for Hydrogen and Oxygen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16187-16193.	8.0	175
13	Single-Atom Catalysts for Electrochemical Hydrogen Evolution Reaction: Recent Advances and Future Perspectives. <i>Nano-Micro Letters</i> , 2020, 12, 21.	27.0	159
14	Semimetallic MoP ₂ : an active and stable hydrogen evolution electrocatalyst over the whole pH range. <i>Nanoscale</i> , 2016, 8, 8500-8504.	5.6	155
15	Hexapod PtRuCu Nanocrystalline Alloy for Highly Efficient and Stable Methanol Oxidation. <i>ACS Catalysis</i> , 2018, 8, 7578-7584.	11.2	152
16	Self-Organized 3D Porous Graphene Dual-Doped with Biomass-Sponsored Nitrogen and Sulfur for Oxygen Reduction and Evolution. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29408-29418.	8.0	143
17	Mo ₂ C quantum dot embedded chitosan-derived nitrogen-doped carbon for efficient hydrogen evolution in a broad pH range. <i>Chemical Communications</i> , 2016, 52, 12753-12756.	4.1	138
18	Co ₂ P quantum dot embedded N, P dual-doped carbon self-supported electrodes with flexible and binder-free properties for efficient hydrogen evolution reactions. <i>Nanoscale</i> , 2018, 10, 2902-2907.	5.6	136

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19	Surface Evolution of PtCu Alloy Shell over Pd Nanocrystals Leads to Superior Hydrogen Evolution and Oxygen Reduction Reactions. ACS Energy Letters, 2018, 3, 940-945.	17.4	126
20	Ultrasmall tungsten phosphide nanoparticles embedded in nitrogen-doped carbon as a highly active and stable hydrogen-evolution electrocatalyst. Journal of Materials Chemistry A, 2016, 4, 15327-15332.	10.3	116
21	Smart reconstruction of dual-carbon decorated MnO for anode with high-capacity and ultralong-life lithium storage properties. Carbon, 2017, 115, 95-104.	10.3	115
22	Transforming waste biomass with an intrinsically porous network structure into porous nitrogen-doped graphene for highly efficient oxygen reduction. Physical Chemistry Chemical Physics, 2016, 18, 10392-10399.	2.8	109
23	Three dimensional few-layer porous carbon nanosheets towards oxygen reduction. Applied Catalysis B: Environmental, 2017, 211, 148-156.	20.2	99
24	Transition metal/nitrogen dual-doped mesoporous graphene-like carbon nanosheets for the oxygen reduction and evolution reactions. Nanoscale, 2016, 8, 13311-13320.	5.6	94
25	Carbon nanotubes intercalated Co/N-doped porous carbon nanosheets as efficient electrocatalyst for oxygen reduction reaction and zinc-air batteries. Chemical Engineering Journal, 2018, 342, 163-170.	12.7	91
26	Activating rhodium phosphide-based catalysts for the pH-universal hydrogen evolution reaction. Nanoscale, 2018, 10, 12407-12412.	5.6	89
27	RuP ₂ -Based Catalysts with Platinum-like Activity and Higher Durability for the Hydrogen Evolution Reaction at All pH-Values. Angewandte Chemie, 2017, 129, 11717-11722.	2.0	86
28	Surface Modification of a NiS ₂ Nanoarray with Ni(OH) ₂ toward Superior Water Reduction Electrocatalysis in Alkaline Media. Inorganic Chemistry, 2017, 56, 13651-13654.	4.0	84
29	Ultrastable nitrogen-doped carbon encapsulating molybdenum phosphide nanoparticles as highly efficient electrocatalyst for hydrogen generation. Nanoscale, 2016, 8, 17256-17261.	5.6	83
30	Efficient water splitting catalyzed by flexible NiP ₂ nanosheet array electrodes under both neutral and alkaline solutions. New Journal of Chemistry, 2017, 41, 2154-2159.	2.8	77
31	Molybdenum Carbide-Derived Chlorine-Doped Ordered Mesoporous Carbon with Few-Layered Graphene Walls for Energy Storage Applications. ACS Applied Materials & Interfaces, 2017, 9, 3702-3712.	8.0	75
32	Integrated design and construction of WP/W nanorod array electrodes toward efficient hydrogen evolution reaction. Chemical Engineering Journal, 2017, 327, 705-712.	12.7	72
33	A Generic Conversion Strategy: From 2D Metal Carbides (M _x C _y) to M-Self-Doped Graphene toward High-Efficiency Energy Applications. Advanced Functional Materials, 2017, 27, 1604904.	14.9	67
34	A Copper Silicide Nanofoam Current Collector for Directly Grown Si Nanowire Networks and their Application as Lithium-Ion Anodes. Advanced Functional Materials, 2020, 30, 2003278.	14.9	57
35	Electronic Structure Control of Tungsten Oxide Activated by Ni for Ultrahigh-Performance Supercapacitors. Small, 2018, 14, e1800381.	10.0	55
36	Toward Anhydrous Proton Conductivity Based on Imidazole Functionalized Mesoporous Silica/Nafion Composite Membranes. Electrochimica Acta, 2015, 160, 185-194.	5.2	54

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37	Progress and perspectives on alloying-type anode materials for advanced potassium-ion batteries. <i>Materials Today</i> , 2021, 48, 241-269.	14.2	51
38	Scalable cellulose-sponsored functionalized carbon nanorods induced by cobalt for efficient overall water splitting. <i>Carbon</i> , 2018, 137, 274-281.	10.3	50
39	Na-Mn-O Nanocrystals as a High Capacity and Long Life Anode Material for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1602092.	19.5	49
40	Dense Silicon Nanowire Networks Grown on a Stainless Steel Fiber Cloth: A Flexible and Robust Anode for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2021, 33, e2105917.	21.0	46
41	Anion-Modulated Platinum for High-Performance Multifunctional Electrocatalysis toward HER, HOR, and ORR. <i>IScience</i> , 2020, 23, 101793.	4.1	45
42	Robust MOF-253-derived N-doped carbon confinement of Pt single nanocrystal electrocatalysts for oxygen evolution reaction. <i>Chinese Journal of Catalysis</i> , 2020, 41, 839-846.	14.0	41
43	Effects of Intrinsic Pentagon Defects on Electrochemical Reactivity of Carbon Nanomaterials. <i>Angewandte Chemie</i> , 2019, 131, 3899-3904.	2.0	40
44	Shrunken hollow Mo-N/Mo-C nanosphere structure for efficient hydrogen evolution in a broad pH range. <i>Electrochimica Acta</i> , 2019, 298, 799-805.	5.2	38
45	H ₂ O-Assisted Synthesis of Porous N-Doped Graphene/Molybdenum Nitride Composites with Boosted Oxygen Reduction Reaction. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601227.	3.7	35
46	Direct Growth of Si, Ge, and Si-Ge Heterostructure Nanowires Using Electroplated Zn: An Inexpensive Seeding Technique for Li-Ion Alloying Anodes. <i>Small</i> , 2021, 17, e2005443.	10.0	26
47	Yolk-shell m-SiO ₂ @ Nitrogen doped carbon derived zeolitic imidazolate framework high efficient counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2018, 292, 276-284.	5.2	25
48	Zeolitic-imidazolate-framework (ZIF-8)/PEDOT:PSS composite counter electrode for low cost and efficient dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2018, 42, 17303-17310.	2.8	25
49	Enhancing the performance of germanium nanowire anodes for Li-ion batteries by direct growth on textured copper. <i>Chemical Communications</i> , 2019, 55, 7780-7783.	4.1	23
50	Anhydrous Proton Conducting Materials Based on Sulfonated Dimethylphenethylchlorosilane Grafted Mesoporous Silica/Ionic Liquid Composite. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11535-11543.	8.0	22
51	Na-Mn-O@C yolk-shell nanorods as an ultrahigh electrochemical performance anode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18509-18517.	10.3	22
52	TePtFe Nanotubes as High-Performing Bifunctional Electrocatalysts for the Oxygen Reduction Reaction and Hydrogen Evolution Reaction. <i>ChemSusChem</i> , 2018, 11, 1328-1333.	6.8	22
53	Si ₃ N ₄ /MoS ₂ -PEDOT: PSS composite counter electrode for bifacial dye-sensitized solar cells. <i>Solar Energy</i> , 2018, 173, 1135-1143.	6.1	21
54	Distorted niobium-self-doped graphene in-situ grown from 2D niobium carbide for catalyzing oxygen reduction. <i>Carbon</i> , 2018, 139, 1144-1151.	10.3	19

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55	Carbon black/silicon nitride nanocomposites as high-efficiency counter electrodes for dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2018, 42, 11715-11723.	2.8	19
56	Three-Dimensionally Costabilized Metal Catalysts toward an Oxygen Reduction Reaction. <i>Langmuir</i> , 2016, 32, 2236-2244.	3.5	16
57	ZnO-nitrogen doped carbon derived from a zeolitic imidazolate framework as an efficient counter electrode in dye-sensitized solar cells. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1976-1987.	4.9	16
58	Lithium storage properties of in situ synthesized $\text{Li}_2\text{FeSiO}_4$ and LiFeBO_3 nanocomposites as advanced cathode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23368-23375.	10.3	15
59	$\text{MoS}_2/\text{ZIF-8}$ derived nitrogen doped carbon (NC)-PEDOT: PSS as optically transparent counter electrode for dye-sensitized solar cells. <i>Solar Energy</i> , 2021, 218, 117-128.	6.1	13
60	Improved oxygen reduction activity of porous carbon materials by self-doping nitrogen derived from PVP with urea as a promoter. <i>Electrochimica Acta</i> , 2015, 177, 73-78.	5.2	11
61	In-situ Fabrication of Tungsten Diphosphide Nanoparticles on Tungsten foil: A Hydrogen Evolution Cathode for a Wide pH Range. <i>Energy Technology</i> , 2016, 4, 1030-1034.	3.8	11
62	Subsuming the Metal Seed to Transform Binary Metal Chalcogenide Nanocrystals into Multinary Compositions. <i>ACS Nano</i> , 2022, 16, 8917-8927.	14.6	8
63	Evolution of Hierarchically Layered Cu-Rich Silicide Nanoarchitectures. <i>Crystal Growth and Design</i> , 2020, 20, 6677-6682.	3.0	4
64	Waste-Recovered Nanomaterials for Emerging Electrocatalytic Applications. <i>Topics in Mining, Metallurgy and Materials Engineering</i> , 2021, , 247-292.	1.6	1