Kwadwo Asare Owusu

List of Publications by Citations

38 papers	2,964 citations	24 h-index	42 g-index
42 ext. papers	3,675 ext. citations	11.6 avg, IF	5.34 L-index

#	Paper	IF	Citations
38	Multifunctional Mo□N/C@MoS2 Electrocatalysts for HER, OER, ORR, and Zn□Air Batteries. *Advanced Functional Materials*, **2017**, 27, 1702300	15.6	519
37	Low-crystalline iron oxide hydroxide nanoparticle anode for high-performance supercapacitors. *Nature Communications*, **2017**, 8, 14264	17.4	452
36	Porous Nickel-Iron Selenide Nanosheets as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2016**, 8, 19386-92	9.5	225
35	Three-Dimensional Crumpled Reduced Graphene Oxide/MoS2 Nanoflowers: A Stable Anode for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2015**, 7, 12625-30	9.5	165
34	A New View of Supercapacitors: Integrated Supercapacitors. *Advanced Energy Materials*, **2019**, 9, 1901081	21.8	155
33	Finely Crafted 3D Electrodes for Dendrite-Free and High-Performance Flexible Fiber-Shaped Zn□Co Batteries. *Advanced Functional Materials*, **2018**, 28, 1802016	15.6	154
32	Low-Crystalline Bimetallic Metal□Organic Framework Electrocatalysts with Rich Active Sites for Oxygen Evolution. *ACS Energy Letters*, **2019**, 4, 285-292	20.1	150
31	Copper□Nickel Nitride Nanosheets as Efficient Bifunctional Catalysts for Hydrazine-Assisted Electrolytic Hydrogen Production. *Advanced Energy Materials*, **2019**, 9, 1900390	21.8	128
30	Self-Organized 3D Porous Graphene Dual-Doped with Biomass-Sponsored Nitrogen and Sulfur for Oxygen Reduction and Evolution. *ACS Applied Materials & Interfaces*, **2016**, 8, 29408-29418	9.5	127
29	Aqueous Zn//Zn(CF3SO3)2//Na3V2(PO4)3 batteries with simultaneous Zn2+/Na+ intercalation/de-intercalation. *Nano Energy*, **2019**, 58, 492-498	17.1	103
28	Realizing Three-Electron Redox Reactions in NASICON-Structured Na3MnTi(PO4)3 for Sodium-Ion Batteries. *Advanced Energy Materials*, **2019**, 9, 1803436	21.8	89
27	Vanadium dioxide for energy conservation and energy storage applications: Synthesis and performance improvement. *Applied Energy*, **2018**, 211, 200-217	10.7	79
26	Self-adaptive mesoporous CoS@alveolus-like carbon yolk-shell microsphere for alkali cations storage. *Nano Energy*, **2017**, 41, 109-116	17.1	64
25	Ni foam supported NiO nanosheets as high-performance free-standing electrodes for hybrid supercapacitors and Ni□n batteries. *Journal of Materials Chemistry A*, **2018**, 6, 19488-19494	13	57
24	1D Carbon-Based Nanocomposites for Electrochemical Energy Storage. *Small*, **2019**, 15, e1902348	11	46
23	Macroscopic synthesis of ultrafine N□doped carbon nanofibers for superior capacitive energy storage. *Science Bulletin*, **2019**, 64, 1617-1624	10.6	44
22	MoS2/MnO2 heterostructured nanodevices for electrochemical energy storage. *Nano Research*, **2018**, 11, 2083-2092	10	40

21	Hierarchical MnCo2O4@NiMoO4 as free-standing core–shell nanowire arrays with synergistic effect for enhanced supercapacitor performance. *Inorganic Chemistry Frontiers*, **2019**, 6, 857-865	6.8	40
20	Interconnected Nanorods–Nanoflakes Li2Co2(MoO4)3 Framework Structure with Enhanced Electrochemical Properties for Supercapacitors. *Advanced Energy Materials*, **2015**, 5, 1500060	21.8	39
19	Uncovering the Cu-driven electrochemical mechanism of transition metal chalcogenides based electrodes. *Energy Storage Materials*, **2019**, 16, 625-631	19.4	38
18	Boosting the electrochemical performance and reliability of conducting polymer microelectrode via intermediate graphene for on-chip asymmetric micro-supercapacitor. *Journal of Energy Chemistry*, **2020**, 49, 224-232	12	31
17	Recent Advances in Nanowire-Biosystem Interfaces: From Chemical Conversion, Energy Production to Electrophysiology. *CheM*, **2018**, 4, 1538-1559	16.2	29
16	Insights into the storage mechanism of VS4 nanowire clusters in aluminum-ion battery. *Nano Energy*, **2021**, 79, 105384	17.1	28
15	Boosting oxygen reduction activity with low-temperature derived high-loading atomic cobalt on nitrogen-doped graphene for efficient Zn-air batteries. *Chemical Communications*, **2019**, 55, 334-337	5.8	25
14	Ni/Fe based bimetallic coordination complexes with rich active sites for efficient oxygen evolution reaction. *Chemical Engineering Journal*, **2021**, 405, 126959	14.7	18
13	Integration of VS2 nanosheets into carbon for high energy density micro-supercapacitor. *Journal of Alloys and Compounds*, **2020**, 823, 151769	5.7	17
12	Introducing Na2SO4 in aqueous ZnSO4 electrolyte realizes superior electrochemical performance in zinc-ion hybrid capacitor. *Materials Today Energy*, **2020**, 18, 100529	7	17
11	Activated carbon clothes for wide-voltage high-energy-density aqueous symmetric supercapacitors. *Chinese Chemical Letters*, **2020**, 31, 1620-1624	8.1	16
10	Stepwise chelation-etching synthesis of carbon-confined ultrafine SnO nanoparticles for stable sodium storage. *Chemical Communications*, **2018**, 54, 1469-1472	5.8	14
9	Heterogeneous Contraction-Mediated Asymmetric Carbon Colloids **2019**, 1, 290-296		14
8	3D Nitrogen-Doped Graphene Encapsulated Metallic Nickel-Iron Alloy Nanoparticles for Efficient Bifunctional Oxygen Electrocatalysis. *Chemistry - A European Journal*, **2020**, 26, 4044	4.8	12
7	Self-adaptive FeP@C nanocages for reversible and long-term lithium-ion batteries. *Chemical Engineering Journal*, **2020**, 395, 125124	14.7	11
6	Bilayered microelectrodes based on electrochemically deposited MnO/polypyrrole towards fast charge transport kinetics for micro-supercapacitors.. *RSC Advances*, **2020**, 10, 18245-18251	3.7	5
5	Co0.5Ni0.5MoO4 Double-Shelled Hollow Spheres with Enhanced Electrochemical Performance for Supercapacitors and Lithium-Ion Batteries. *Energy Technology*, **2019**, 7, 1801160	3.5	4
4	3D Nitrogen-Doped Graphene Encapsulated Metallic Nickel-Iron Alloy Nanoparticles for Efficient Bifunctional Oxygen Electrocatalysis. *Chemistry - A European Journal*, **2020**, 26, 3896	4.8	3

3	Ambient temperature sulfonated carbon fiber reinforced PEEK with hydroxyapatite and reduced graphene oxide hydroxyapatite composite coating. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2021**, 109, 2174-2183	3.5	2
2	One-step synthesis of heterostructured cobalt-iron selenide as bifunctional catalyst for overall water splitting. *Materials Chemistry and Physics*, **2022**, 275, 125201	4.4	2
1	3D mesoporous structure assembled from monoclinic M-phase VO nanoflakes with enhanced thermochromic performance.. *RSC Advances*, **2021**, 11, 13556-13563	3.7	