Tao Wang

List of Publications by Year
in descending order

29 papers	1,340 citations	394286 19 h-index	501076 28 g-index
29 all docs	29 docs citations	29 times ranked	1576 citing authors

#	Article	IF	Citations
1	Interaction between Nitrogen and Sulfur in Co-Doped Graphene and Synergetic Effect in Supercapacitor. Scientific Reports, 2015, 5, 9591.	1.6	232
2	Hydrothermal synthesis of nitrogen-doped graphene hydrogels using amino acids with different acidities as doping agents. Journal of Materials Chemistry A, 2014, 2, 8352-8361.	5.2	141
3	P-doped hierarchical porous carbon aerogels derived from phenolic resins for high performance supercapacitor. Applied Surface Science, 2019, 475, 56-66.	3.1	119
4	B/N-Codoped Carbon Nanosheets Derived from the Self-Assembly of Chitosan–Amino Acid Gels for Greatly Improved Supercapacitor Performances. ACS Applied Materials & Interfaces, 2020, 12, 18692-18704.	4.0	98
5	Dual oxidation and sulfurization enabling hybrid $Co/Co_3O_4@CoS$ in S/N-doped carbon matrix for bifunctional oxygen electrocatalysis and rechargeable Zn-air batteries. Chemical Engineering Journal, 2021, 419, 129619.	6.6	77
6	Facile synthesis of functionalized graphene hydrogel for high performance supercapacitor with high volumetric capacitance and ultralong cycling stability. Applied Surface Science, 2018, 455, 683-695.	3.1	67
7	Nitrogen, Phosphorus Co-doped Carbon Obtained from Amino Acid Based Resin Xerogel as Efficient Electrode for Supercapacitor. ACS Applied Energy Materials, 2020, 3, 957-969.	2.5	54
8	One-step synthesis of in-situ N, S self-doped carbon nanosheets with hierarchical porous structure for high performance supercapacitor and oxygen reduction reaction electrocatalyst. Electrochimica Acta, 2021, 366, 137404.	2.6	50
9	One–pot Synthesized Co/Co_3O_4–N–Graphene Composite as Electrocatalyst for Oxygen Reduction Reaction and Oxygen Evolution Reaction. Electroanalysis, 2016, 28, 2435-2443.	1.5	48
10	Hydrothermal synthesis of nitrogen, sulfur co-doped graphene and its high performance in supercapacitor and oxygen reduction reaction. Microporous and Mesoporous Materials, 2019, 290, 109556.	2.2	44
11	Agar-based porous electrode and electrolyte for flexible symmetric supercapacitors with ultrahigh energy density. Journal of Power Sources, 2021, 507, 230252.	4.0	44
12	Amino acid-assisted synthesis of Fe2O3/nitrogen doped graphene hydrogels as high performance electrode material. Electrochimica Acta, 2018, 283, 1858-1870.	2.6	33
13	Earth-abundant coal-derived carbon nanotube/carbon composites as efficient bifunctional oxygen electrocatalysts for rechargeable zinc-air batteries. Journal of Energy Chemistry, 2021, 56, 87-97.	7.1	32
14	Reduced graphene oxide-coated mulberry-shaped α-Fe2O3 nanoparticles composite as high performance electrode material for supercapacitors. Journal of Alloys and Compounds, 2018, 738, 89-96.	2.8	29
15	Nitrogen-Doped Carbon Derived from Deep Eutectic Solvent as a High-Performance Supercapacitor. ACS Applied Energy Materials, 2021, 4, 2190-2200.	2.5	27
16	Facile synthesis of magnetic ionic liquids/gold nanoparticles/porous silicon composite SERS substrate for ultra-sensitive detection of arsenic. Applied Surface Science, 2021, 545, 148992.	3.1	27
17	Non-invasive SERS serum detection technology combined with multivariate statistical algorithm for simultaneous screening of cervical cancer and breast cancer. Analytical and Bioanalytical Chemistry, 2021, 413, 4775-4784.	1.9	25
18	Trace metals dramatically boost oxygen electrocatalysis of N-doped coal-derived carbon for zinc–air batteries. Nanoscale, 2020, 12, 9628-9639.	2.8	24

#	Article	IF	Citations
19	Significant enhancement of the oxygen reduction activity of self-heteroatom doped coal derived carbon through oxidative pretreatment. Electrochimica Acta, 2019, 312, 22-30.	2.6	21
20	Establishment of a reliable scheme for obtaining highly stable SERS signal of biological serum. Biosensors and Bioelectronics, 2021, 189, 113315.	5.3	21
21	Traditional earth-abundant coal as new energy materials to catalyze the oxygen reduction reaction in alkaline solution. Electrochimica Acta, 2016, 211, 568-575.	2.6	18
22	Co-Mn Hybrid Oxides Supported on N-Doped Graphene as Efficient Electrocatalysts for Reversible Oxygen Electrodes. Journal of the Electrochemical Society, 2018, 165, H580-H589.	1.3	17
23	A Novel Porous N- and S-Self-Doped Carbon Derived from Chinese Rice Wine Lees as High-Performance Electrode Materials in a Supercapacitor. ACS Sustainable Chemistry and Engineering, 0, , .	3.2	17
24	Heteroatoms self-doped porous carbon from cottonseed meal using K2CO3 as activator and DES electrolyte for supercapacitor with high energy density. Materials Today Chemistry, 2022, 24, 100828.	1.7	16
25	N-doped carbon nanosheet supported Fe2O3/Fe3C nanoparticles as efficient electrode materials for oxygen reduction reaction and supercapacitor application. Inorganic Chemistry Communication, 2020, 117, 107952.	1.8	14
26	Free-standing hierarchical Co@CoO/CNFs/Cu-foam composite based on electrochemical deposition as high-performance supercapacitor electrode. Journal of Alloys and Compounds, 2021, 856, 158075.	2.8	14
27	Organic resin based high surface area and N-enriched porous carbon nanosheets for supercapacitors. Applied Surface Science, 2022, 599, 153885.	3.1	14
28	Facile synthesis of amino acids-derived Fe/N-codoped reduced graphene oxide for enhanced ORR electrocatalyst. Journal of Electroanalytical Chemistry, 2022, 915, 116326.	1.9	10
29	N/B codoped porous carbon electrode and electrolyte derived from amino acid based deep eutectic solvent for high capacitive performance. Journal of Electroanalytical Chemistry, 2021, 903, 115840.	1.9	7