DianaÂ n H Tran

List of Publications by Year
in descending order

48 papers	3,278 citations	172457 29 h-index	214800 47 g-index
48 all docs	48 docs citations	48 times ranked	5254 citing authors

#	Article	IF	Citations
1	Graphene: a multipurpose material for protective coatings. Journal of Materials Chemistry A, 2015, 3, 12580-12602.	10.3	248
2	Robust Superhydrophobic Graphene-Based Composite Coatings with Self-Cleaning and Corrosion Barrier Properties. ACS Applied Materials & Interfaces, 2015, 7, 28482-28493.	8.0	242
3	Recent Advances in Sensing Applications of Graphene Assemblies and Their Composites. Advanced Functional Materials, 2017, 27, 1702891.	14.9	209
4	Graphene-Diatom Silica Aerogels for Efficient Removal of Mercury Ions from Water. ACS Applied Materials & Interfaces, 2015, 7, 11815-11823.	8.0	190
5	Graphene Aerogels Decorated with Î±-FeOOH Nanoparticles for Efficient Adsorption of Arsenic from Contaminated Waters. ACS Applied Materials & Interfaces, 2015, 7, 9758-9766.	8.0	167
6	From Graphene Oxide to Reduced Graphene Oxide: Impact on the Physiochemical and Mechanical Properties of Grapheneâ€"Cement Composites. ACS Applied Materials & Interfaces, 2017, 9, 43275-43286.	8.0	167
7	A green approach for the reduction of graphene oxide nanosheets using non-aromatic amino acids. Carbon, 2014, 76, 193-202.	10.3	150
8	Multifunctional Binding Chemistry on Modified Graphene Composite for Selective and Highly Efficient Adsorption of Mercury. ACS Applied Materials & Interfaces, 2019, 11, 6350-6362.	8.0	136
9	Graphene Oxide: A New Carrier for Slow Release of Plant Micronutrients. ACS Applied Materials & Interfaces, 2017, 9, 43325-43335.	8.0	131
10	Selective adsorption of oilâ€"water mixtures using polydimethylsiloxane (PDMS)â€"graphene sponges. Environmental Science: Water Research and Technology, 2015, 1, 298-305.	2.4	127
11	Facile Adhesion-Tuning of Superhydrophobic Surfaces between â€œLotusâ€•and â€œPetalâ€•Effect and Their Influence on Icing and Deicing Properties. ACS Applied Materials & Interfaces, 2017, 9, 8393-8402.	8.0	114
12	Graphene Oxideâ€Based Lamella Network for Enhanced Sound Absorption. Advanced Functional Materials, 2017, 27, 1703820.	14.9	109
13	Graphene Oxide-Assisted Liquid Phase Exfoliation of Graphite into Graphene for Highly Conductive Film and Electromechanical Sensors. ACS Applied Materials & Interfaces, 2016, 8, 16521-16532.	8.0	98
14	Engineered grapheneâ€"nanoparticle aerogel composites for efficient removal of phosphate from water. Journal of Materials Chemistry A, 2015, 3, 6844-6852.	10.3	88
15	Morphology-controlled MnO₂ modified silicon diatoms for high-performance asymmetric supercapacitors. Journal of Materials Chemistry A, 2017, 5, 10856-10865.	10.3	88
16	Unlocking thermogravimetric analysis (TGA) in the fight against â€œFake grapheneâ€•materials. Carbon, 2021, 179, 505-513.	10.3	88
17	Graphene-Borate as an Efficient Fire Retardant for Cellulosic Materials with Multiple and Synergetic Modes of Action. ACS Applied Materials & Interfaces, 2017, 9, 10160-10168.	8.0	78
18	Multithiol functionalized graphene bio-sponge via photoinitiated thiol-ene click chemistry for efficient heavy metal ions adsorption. Chemical Engineering Journal, 2020, 395, 124965.	12.7	77

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19	Grapheneâ€Based Sorbents for Multipollutants Removal in Water: A Review of Recent Progress. Advanced Functional Materials, 2021, 31, 2007356.	14.9	75
20	Scanning atmospheric plasma for ultrafast reduction of graphene oxide and fabrication of highly conductive graphene films and patterns. Carbon, 2018, 127, 113-121.	10.3	71
21	Engineering of graphene/epoxy nanocomposites with improved distribution of graphene nanosheets for advanced piezo-resistive mechanical sensing. Journal of Materials Chemistry C, 2016, 4, 3422-3430.	5.5	62
22	Functionalized three-dimensional (3D) graphene composite for high efficiency removal of mercury. Environmental Science: Water Research and Technology, 2016, 2, 390-402.	2.4	57
23	Revealing the dependence of the physiochemical and mechanical properties of cement composites on graphene oxide concentration. RSC Advances, 2017, 7, 55148-55156.	3.6	57
24	MoS₂/Graphene Composites as Promising Materials for Energy Storage and Conversion Applications. Advanced Materials Interfaces, 2019, 6, 1900915.	3.7	54
25	Interlayer growth of borates for highly adhesive graphene coatings with enhanced abrasion resistance, fire-retardant and antibacterial ability. Carbon, 2017, 117, 252-262.	10.3	52
26	Tuning the Multifunctional Surface Chemistry of Reduced Graphene Oxide via Combined Elemental Doping and Chemical Modifications. ACS Omega, 2019, 4, 19787-19798.	3.5	44
27	Polyamine-modified reduced graphene oxide: A new and cost-effective adsorbent for efficient removal of mercury in waters. Separation and Purification Technology, 2020, 238, 116441.	7.9	38
28	Physiochemical and mechanical properties of reduced graphene oxideâ€"cement mortar composites: Effect of reduced graphene oxide particle size. Construction and Building Materials, 2020, 250, 118832.	7.2	36
29	Engineering of highly conductive and ultra-thin nitrogen-doped graphene films by combined methods of microwave irradiation, ultrasonic spraying and thermal annealing. Chemical Engineering Journal, 2018, 338, 764-773.	12.7	32
30	Lightweight Bismuth Titanate (Bi₄Ti₃O₁₂) Nanoparticle-Epoxy Composite for Advanced Lead-Free X-ray Radiation Shielding. ACS Applied Nano Materials, 2021, 4, 7471-7478.	5.0	28
31	Bismuth Oxide Films for X-ray shielding: Effects of particle size and structural morphology. Materials Chemistry and Physics, 2021, 260, 124084.	4.0	18
32	Rational design of monolayers for improved water evaporation mitigation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 415, 47-58.	4.7	17
33	Cogranulation of Low Rates of Graphene and Graphene Oxide with Macronutrient Fertilizers Remarkably Improves Their Physical Properties. ACS Sustainable Chemistry and Engineering, 2018, 6, 1299-1309.	6.7	17
34	Allâ€inâ€One Bioinspired Multifunctional Graphene Biopolymer Foam for Simultaneous Removal of Multiple Water Pollutants. Advanced Materials Interfaces, 2020, 7, 2000664.	3.7	16
35	Study of iron oxide nanoparticle phases in graphene aerogels for oxygen reduction reaction. New Journal of Chemistry, 2017, 41, 15180-15186.	2.8	15
36	A Unique 3D Nitrogen-Doped Carbon Composite as High-Performance Oxygen Reduction Catalyst. Materials, 2017, 10, 921.	2.9	14

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37	Molecular Interactions behind the Synergistic Effect in Mixed Monolayers of 1-Octadecanol and Ethylene Glycol Monooctadecyl Ether. Journal of Physical Chemistry B, 2013, 117, 3603-3612.	2.6	12
38	Revealing the dependence of graphene concentration and physicochemical properties on the crushing strength of co-granulated fertilizers by wet granulation process. Powder Technology, 2020, 360, 588-597.	4.2	10
39	High-yield preparation of edge-functionalized and water dispersible few-layers of hexagonal boron nitride (hBN) by direct wet chemical exfoliation. Nanotechnology, 2021, 32, 405601.	2.6	10
40	Green Synthesis of Three-Dimensional Hybrid N-Doped ORR Electro-Catalysts Derived from Apricot Sap. Materials, 2018, 11, 205.	2.9	8
41	Dynamic Performance of Duolayers at the Air/Water Interface. 2. Mechanistic Insights from All-Atom Simulations. Journal of Physical Chemistry B, 2014, 118, 10927-10933.	2.6	5
42	The hydrothermal processing of iron oxides from bacterial biofilm waste as new nanomaterials for broad applications. RSC Advances, 2018, 8, 34848-34852.	3.6	5
43	A Facile Synthesis Procedure for Sulfonated Aniline Oligomers with Distinct Microstructures. Materials, 2018, 11, 1755.	2.9	5
44	Dynamic Performance of Duolayers at the Air/Water Interface. 1. Experimental Analysis. Journal of Physical Chemistry B, 2014, 118, 10919-10926.	2.6	4
45	A Unique Synthesis of Macroporous N-Doped Carbon Composite Catalyst for Oxygen Reduction Reaction. Nanomaterials, 2021, 11, 43.	4.1	4
46	Mixedâ€Mode Remediation of Cadmium and Arsenate Ions Using Grapheneâ€Based Materials. Clean - Soil, Air, Water, 2018, 46, 1800073.	1.1	3
47	Removal of Multiple Water Pollutants: Allâ€inâ€One Bioinspired Multifunctional Graphene Biopolymer Foam for Simultaneous Removal of Multiple Water Pollutants (Adv. Mater. Interfaces 18/2020). Advanced Materials Interfaces, 2020, 7, 2070103.	3.7	2
48	Supercapacitors: MoS₂/Graphene Composites as Promising Materials for Energy Storage and Conversion Applications (Adv. Mater. Interfaces 20/2019). Advanced Materials Interfaces, 2019, 6, 1970129.	3.7	0