

# Diana H Tran

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

3,278  
citations

172207

29  
h-index

214527

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. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12580-12602.	5.2	248
2	Robust Superhydrophobic Graphene-Based Composite Coatings with Self-Cleaning and Corrosion Barrier Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 28482-28493.	4.0	242
3	Recent Advances in Sensing Applications of Graphene Assemblies and Their Composites. <i>Advanced Functional Materials</i> , 2017, 27, 1702891.	7.8	209
4	Graphene-Diatom Silica Aerogels for Efficient Removal of Mercury Ions from Water. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 11815-11823.	4.0	190
5	Graphene Aerogels Decorated with $\text{FeOOH}$ Nanoparticles for Efficient Adsorption of Arsenic from Contaminated Waters. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 9758-9766.	4.0	167
6	From Graphene Oxide to Reduced Graphene Oxide: Impact on the Physicochemical and Mechanical Properties of Graphene-Cement Composites. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 43275-43286.	4.0	167
7	A green approach for the reduction of graphene oxide nanosheets using non-aromatic amino acids. <i>Carbon</i> , 2014, 76, 193-202.	5.4	150
8	Multifunctional Binding Chemistry on Modified Graphene Composite for Selective and Highly Efficient Adsorption of Mercury. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 6350-6362.	4.0	136
9	Graphene Oxide: A New Carrier for Slow Release of Plant Micronutrients. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 43325-43335.	4.0	131
10	Selective adsorption of oil-water mixtures using polydimethylsiloxane (PDMS)-graphene sponges. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 298-305.	1.2	127
11	Facile Adhesion-Tuning of Superhydrophobic Surfaces between "Lotus" and "Petal" Effect and Their Influence on Icing and Deicing Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 8393-8402.	4.0	114
12	Graphene Oxide-Based Lamella Network for Enhanced Sound Absorption. <i>Advanced Functional Materials</i> , 2017, 27, 1703820.	7.8	109
13	Graphene Oxide-Assisted Liquid Phase Exfoliation of Graphite into Graphene for Highly Conductive Film and Electromechanical Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 16521-16532.	4.0	98
14	Engineered graphene-nanoparticle aerogel composites for efficient removal of phosphate from water. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6844-6852.	5.2	88
15	Morphology-controlled $\text{MnO}_2$ modified silicon diatoms for high-performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10856-10865.	5.2	88
16	Unlocking thermogravimetric analysis (TGA) in the fight against "Fake graphene" materials. <i>Carbon</i> , 2021, 179, 505-513.	5.4	88
17	Graphene-Borate as an Efficient Fire Retardant for Cellulosic Materials with Multiple and Synergetic Modes of Action. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 10160-10168.	4.0	78
18	Multithiol functionalized graphene bio-sponge via photoinitiated thiol-ene click chemistry for efficient heavy metal ions adsorption. <i>Chemical Engineering Journal</i> , 2020, 395, 124965.	6.6	77

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19	Graphene-Based Sorbents for Multipollutants Removal in Water: A Review of Recent Progress. <i>Advanced Functional Materials</i> , 2021, 31, 2007356.	7.8	75
20	Scanning atmospheric plasma for ultrafast reduction of graphene oxide and fabrication of highly conductive graphene films and patterns. <i>Carbon</i> , 2018, 127, 113-121.	5.4	71
21	Engineering of graphene/epoxy nanocomposites with improved distribution of graphene nanosheets for advanced piezo-resistive mechanical sensing. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3422-3430.	2.7	62
22	Functionalized three-dimensional (3D) graphene composite for high efficiency removal of mercury. <i>Environmental Science: Water Research and Technology</i> , 2016, 2, 390-402.	1.2	57
23	Revealing the dependence of the physiochemical and mechanical properties of cement composites on graphene oxide concentration. <i>RSC Advances</i> , 2017, 7, 55148-55156.	1.7	57
24	MoS <sub>2</sub> /Graphene Composites as Promising Materials for Energy Storage and Conversion Applications. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900915.	1.9	54
25	Interlayer growth of borates for highly adhesive graphene coatings with enhanced abrasion resistance, fire-retardant and antibacterial ability. <i>Carbon</i> , 2017, 117, 252-262.	5.4	52
26	Tuning the Multifunctional Surface Chemistry of Reduced Graphene Oxide via Combined Elemental Doping and Chemical Modifications. <i>ACS Omega</i> , 2019, 4, 19787-19798.	1.6	44
27	Polyamine-modified reduced graphene oxide: A new and cost-effective adsorbent for efficient removal of mercury in waters. <i>Separation and Purification Technology</i> , 2020, 238, 116441.	3.9	38
28	Physiochemical and mechanical properties of reduced graphene oxide-cement mortar composites: Effect of reduced graphene oxide particle size. <i>Construction and Building Materials</i> , 2020, 250, 118832.	3.2	36
29	Engineering of highly conductive and ultra-thin nitrogen-doped graphene films by combined methods of microwave irradiation, ultrasonic spraying and thermal annealing. <i>Chemical Engineering Journal</i> , 2018, 338, 764-773.	6.6	32
30	Lightweight Bismuth Titanate (Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> ) Nanoparticle-Epoxy Composite for Advanced Lead-Free X-ray Radiation Shielding. <i>ACS Applied Nano Materials</i> , 2021, 4, 7471-7478.	2.4	28
31	Bismuth Oxide Films for X-ray shielding: Effects of particle size and structural morphology. <i>Materials Chemistry and Physics</i> , 2021, 260, 124084.	2.0	18
32	Rational design of monolayers for improved water evaporation mitigation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 415, 47-58.	2.3	17
33	Cogranulation of Low Rates of Graphene and Graphene Oxide with Macronutrient Fertilizers Remarkably Improves Their Physical Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1299-1309.	3.2	17
34	All-in-One Bioinspired Multifunctional Graphene Biopolymer Foam for Simultaneous Removal of Multiple Water Pollutants. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000664.	1.9	16
35	Study of iron oxide nanoparticle phases in graphene aerogels for oxygen reduction reaction. <i>New Journal of Chemistry</i> , 2017, 41, 15180-15186.	1.4	15
36	A Unique 3D Nitrogen-Doped Carbon Composite as High-Performance Oxygen Reduction Catalyst. <i>Materials</i> , 2017, 10, 921.	1.3	14

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37	Molecular Interactions behind the Synergistic Effect in Mixed Monolayers of 1-Octadecanol and Ethylene Glycol Monooctadecyl Ether. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3603-3612.	1.2	12
38	Revealing the dependence of graphene concentration and physicochemical properties on the crushing strength of co-granulated fertilizers by wet granulation process. <i>Powder Technology</i> , 2020, 360, 588-597.	2.1	10
39	High-yield preparation of edge-functionalized and water dispersible few-layers of hexagonal boron nitride (hBN) by direct wet chemical exfoliation. <i>Nanotechnology</i> , 2021, 32, 405601.	1.3	10
40	Green Synthesis of Three-Dimensional Hybrid N-Doped ORR Electro-Catalysts Derived from Apricot Sap. <i>Materials</i> , 2018, 11, 205.	1.3	8
41	Dynamic Performance of Duolayers at the Air/Water Interface. 2. Mechanistic Insights from All-Atom Simulations. <i>Journal of Physical Chemistry B</i> , 2014, 118, 10927-10933.	1.2	5
42	The hydrothermal processing of iron oxides from bacterial biofilm waste as new nanomaterials for broad applications. <i>RSC Advances</i> , 2018, 8, 34848-34852.	1.7	5
43	A Facile Synthesis Procedure for Sulfonated Aniline Oligomers with Distinct Microstructures. <i>Materials</i> , 2018, 11, 1755.	1.3	5
44	Dynamic Performance of Duolayers at the Air/Water Interface. 1. Experimental Analysis. <i>Journal of Physical Chemistry B</i> , 2014, 118, 10919-10926.	1.2	4
45	A Unique Synthesis of Macroporous N-Doped Carbon Composite Catalyst for Oxygen Reduction Reaction. <i>Nanomaterials</i> , 2021, 11, 43.	1.9	4
46	Mixed-Mode Remediation of Cadmium and Arsenate Ions Using Graphene-Based Materials. <i>Clean - Soil, Air, Water</i> , 2018, 46, 1800073.	0.7	3
47	Removal of Multiple Water Pollutants: A Bioinspired Multifunctional Graphene Biopolymer Foam for Simultaneous Removal of Multiple Water Pollutants ( <i>Adv. Mater. Interfaces</i> 18/2020). <i>Advanced Materials Interfaces</i> , 2020, 7, 2070103.	1.9	2
48	Supercapacitors: MoS <sub>2</sub> /Graphene Composites as Promising Materials for Energy Storage and Conversion Applications ( <i>Adv. Mater. Interfaces</i> 20/2019). <i>Advanced Materials Interfaces</i> , 2019, 6, 1970129.	1.9	0