

John D Fortner

List of Publications by Year in Descending Order

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Version: 2024-04-09

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96 papers	5,759 citations	37 h-index	75 g-index
97 ext. papers	6,425 ext. citations	9.1 avg, IF	5.81 L-index

#	Paper	IF	Citations
96	Enhanced polysulfone ultrafiltration membrane performance through fullerol Addition: A study towards optimization. <i>Chemical Engineering Journal</i> , 2022 , 431, 134071	14.7	1
95	In-situ sequestration of perfluoroalkyl substances using polymer-stabilized ion exchange resin. <i>Journal of Hazardous Materials</i> , 2022 , 422, 126960	12.8	4
94	Cetyltrimethylammonium bromide [D]eic acid (CTAB-OA) bilayer coated iron oxide nanocrystals for enhanced chromium (VI) photoreduction via ligand-to-metal charge transfer mechanism. <i>Chemical Engineering Journal</i> , 2021 , 431, 133938	14.7	
93	Photoactive Polyethylenimine-Coated Graphene Oxide Composites for Enhanced Cr(VI) Reduction and Recovery. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28027-28035	9.5	2
92	A graphene oxide Cookbook: Exploring chemical and colloidal properties as a function of synthesis parameters. <i>Journal of Colloid and Interface Science</i> , 2021 , 588, 725-736	9.3	4
91	Effect of rhamnolipid biosurfactant on transport and retention of iron oxide nanoparticles in water-saturated quartz sand. <i>Environmental Science: Nano</i> , 2021 , 8, 311-327	7.1	4
90	Effects of rhamnolipid biosurfactant on the dissolution and transport of silver nanoparticles in porous media. <i>Environmental Science: Nano</i> , 2021 , 8, 2492-2506	7.1	0
89	Room temperature gas sensing mechanism of SnO ₂ towards chloroform: Comparing first principles calculations with sensing experiments. <i>Applied Surface Science</i> , 2021 , 554, 149603	6.7	2
88	Yale School of Public Health Symposium: An overview of the challenges and opportunities associated with per- and polyfluoroalkyl substances (PFAS). <i>Science of the Total Environment</i> , 2021 , 778, 146192	10.2	4
87	Surface functionalized nanoscale metal oxides for arsenic(V), chromium(VI), and uranium(VI) sorption: considering single- and multi-sorbate dynamics. <i>Environmental Science: Nano</i> , 2020 , 7, 3805-3813	7.1	2
86	(Super)paramagnetic nanoparticles as platform materials for environmental applications: From synthesis to demonstration. <i>Frontiers of Environmental Science and Engineering</i> , 2020 , 14, 1	5.8	10
85	Modeling performance of rhamnolipid-coated engineered magnetite nanoparticles for U(VI) sorption and separation. <i>Environmental Science: Nano</i> , 2020 , 7, 2010-2020	7.1	6
84	Formation and Transport of Cr(III)-NOM-Fe Colloids upon Reaction of Cr(VI) with NOM-Fe(II) Colloids at Anoxic-Oxic Interfaces. <i>Environmental Science & Technology</i> , 2020 , 54, 4256-4266	10.3	27
83	Highly stable superparamagnetic iron oxide nanoparticles as functional draw solutes for osmotically driven water transport. <i>Npj Clean Water</i> , 2020 , 3,	11.2	10
82	Organic Functionalized Graphene Oxide Behavior in Water. <i>Nanomaterials</i> , 2020 , 10,	5.4	4
81	Nanotechnology as a Key Enabler for Effective Environmental Remediation Technologies 2020 , 197-207		4
80	Towards optimizing cobalt based metal oxide nanocrystals for hydrogen generation via NaBH ₄ hydrolysis. <i>Applied Catalysis A: General</i> , 2020 , 589, 117303	5.1	21

79	Surface-Engineered Nanomaterials in Water: Understanding Critical Dynamics of Soft Organic Coatings and Relative Aggregation Density. <i>Environmental Science & Technology</i> , 2020 , 54, 13548-13555	10.3	1
78	Delineating the Relationship between Nanoparticle Attachment Efficiency and Fluid Flow Velocity. <i>Environmental Science & Technology</i> , 2020 , 54, 13992-13999	10.3	3
77	Intrapore energy barriers govern ion transport and selectivity of desalination membranes. <i>Science Advances</i> , 2020 , 6,	14.3	58
76	Graphene oxide/mussel foot protein composites for high-strength and ultra-tough thin films. <i>Scientific Reports</i> , 2020 , 10, 19082	4.9	3
75	Free chlorine induced phototransformation of graphene oxide in water: Reaction kinetics and product characterization. <i>Chemical Engineering Journal</i> , 2020 , 381, 122609	14.7	13
74	Cr(VI) Adsorption on Engineered Iron Oxide Nanoparticles: Exploring Complexation Processes and Water Chemistry. <i>Environmental Science & Technology</i> , 2019 , 53, 11913-11921	10.3	37
73	Elucidating the Role of Sulfide on the Stability of Ferrihydrite Colloids under Anoxic Conditions. <i>Environmental Science & Technology</i> , 2019 , 53, 4173-4184	10.3	17
72	Graphene oxides as nanofillers in polysulfone ultrafiltration membranes: Shape matters. <i>Journal of Membrane Science</i> , 2019 , 581, 453-461	9.6	43
71	Engineering Graphene Oxide Laminate Membranes for Enhanced Flux and Boron Treatment with Polyethylenimine (PEI) Polymers. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 924-929	9.5	12
70	Photoenhanced oxidation of nC60 in water: Exploring H2O2 and hydroxyl radical based reactions. <i>Chemical Engineering Journal</i> , 2019 , 360, 665-672	14.7	6
69	Formation and stability of NOM-Mn(III) colloids in aquatic environments. <i>Water Research</i> , 2019 , 149, 190-201	10.3	36
68	Fabrication of agricultural waste supported UiO-66 nanoparticles with high utilization in phosphate removal from water. <i>Chemical Engineering Journal</i> , 2019 , 360, 621-630	14.7	72
67	Sensing mechanism of ethanol and acetone at room temperature by SnO2 nano-columns synthesized by aerosol routes: theoretical calculations compared to experimental results. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2053-2066	13	54
66	Engineered superparamagnetic nanomaterials for arsenic(V) and chromium(VI) sorption and separation: quantifying the role of organic surface coatings. <i>Environmental Science: Nano</i> , 2018 , 5, 556-563	7.1	19
65	Low risk posed by engineered and incidental nanoparticles in drinking water. <i>Nature Nanotechnology</i> , 2018 , 13, 661-669	28.7	73
64	SnO Nanostructured Thin Films for Room-Temperature Gas Sensing of Volatile Organic Compounds. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29972-29981	9.5	27
63	Atmospheric Reactivity of Fullerene (C60) Aerosols. <i>ACS Earth and Space Chemistry</i> , 2018 , 2, 95-102	3.2	3
62	Real-time evaluation of natural organic matter deposition processes onto model environmental surfaces. <i>Water Research</i> , 2018 , 129, 231-239	12.5	22

61	Microbially Synthesized Repeats of Mussel Foot Protein Display Enhanced Underwater Adhesion. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43003-43012	9.5	22
60	Facet-Dependent Enhancement in the Activity of Bismuth Vanadate Microcrystals for the Photocatalytic Conversion of Methane to Methanol. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6683-6691	5.6	41
59	Surface-optimized core-shell nanocomposites (Fe ₃ O ₄ @MnxFeyO ₄) for ultra-high uranium sorption and low-field separation in water. <i>Environmental Science: Nano</i> , 2018 , 5, 2252-2256	7.1	11
58	Effect of reduced humic acid on the transport of ferrihydrite nanoparticles under anoxic conditions. <i>Water Research</i> , 2017 , 109, 347-357	12.5	44
57	Surface tunable magnetic nano-sorbents for carbon dioxide sorption and separation. <i>Chemical Engineering Journal</i> , 2017 , 313, 1160-1167	14.7	15
56	Graphene oxides in water: assessing stability as a function of material and natural organic matter properties. <i>Environmental Science: Nano</i> , 2017 , 4, 1484-1493	7.1	52
55	Engineering Nanoscale Iron Oxides for Uranyl Sorption and Separation: Optimization of Particle Core Size and Bilayer Surface Coatings. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13163-13172	9.5	31
54	Photoenhanced transformation of hydroxylated fullerene (fullerol) by free chlorine in water. <i>Environmental Science: Nano</i> , 2017 , 4, 470-479	7.1	12
53	Formation, Aggregation, and Deposition Dynamics of NOM-Iron Colloids at Anoxic-Oxic Interfaces. <i>Environmental Science & Technology</i> , 2017 , 51, 12235-12245	10.3	58
52	Highly efficient and selective phosphate removal from wastewater by magnetically recoverable La(OH)/FeO nanocomposites. <i>Water Research</i> , 2017 , 126, 179-188	12.5	168
51	Measurement and Surface Complexation Modeling of U(VI) Adsorption to Engineered Iron Oxide Nanoparticles. <i>Environmental Science & Technology</i> , 2017 , 51, 9219-9226	10.3	36
50	Photoenhanced oxidation of C ₆₀ aggregates (nC ₆₀) by free chlorine in water. <i>Environmental Science: Nano</i> , 2017 , 4, 117-126	7.1	10
49	Complex interplay between formation routes and natural organic matter modification controls capabilities of C nanoparticles (nC) to accumulate organic contaminants. <i>Journal of Environmental Sciences</i> , 2017 , 51, 315-323	6.4	8
48	Engineered superparamagnetic iron oxide nanoparticles for ultra-enhanced uranium separation and sensing. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15022-15029	13	22
47	Research highlights: unveiling the mechanisms underlying nanoparticle-induced ROS generation and oxidative stress. <i>Environmental Science: Nano</i> , 2016 , 3, 940-945	7.1	12
46	Aqueous Aggregation Behavior of Engineered Superparamagnetic Iron Oxide Nanoparticles: Effects of Oxidative Surface Aging. <i>Environmental Science & Technology</i> , 2016 , 50, 12789-12798	10.3	15
45	Crumpled reduced graphene oxide-mine-titanium dioxide nanocomposites for simultaneous carbon dioxide adsorption and photoreduction. <i>Catalysis Science and Technology</i> , 2016 , 6, 6187-6196	5.5	29
44	Ground State Reactions of nC ₆₀ with Free Chlorine in Water. <i>Environmental Science & Technology</i> , 2016 , 50, 721-31	10.3	16

43	Graphene Oxides in Water: Correlating Morphology and Surface Chemistry with Aggregation Behavior. <i>Environmental Science & Technology</i> , 2016 , 50, 6964-73	10.3	85
42	Element mobilization from Bakken shales as a function of water chemistry. <i>Chemosphere</i> , 2016 , 149, 286-93	8.4	29
41	In Situ Photocatalytic Synthesis of Ag Nanoparticles (nAg) by Crumpled Graphene Oxide Composite Membranes for Filtration and Disinfection Applications. <i>Environmental Science & Technology</i> , 2016 , 50, 2514-21	10.3	64
40	Surface engineering superparamagnetic nanoparticles for aqueous applications: design and characterization of tailored organic bilayers. <i>Environmental Science: Nano</i> , 2016 , 3, 85-93	7.1	24
39	Shape and size controlled synthesis of uniform iron oxide nanocrystals through new non-hydrolytic routes. <i>Nanotechnology</i> , 2016 , 27, 324002	3.4	24
38	A review of recent developments in graphene-enabled membranes for water treatment. <i>Environmental Science: Water Research and Technology</i> , 2016 , 2, 915-922	4.2	76
37	Impact of Water Chemistry on Element Mobilization from Eagle Ford Shale. <i>Environmental Engineering Science</i> , 2015 , 32, 310-320	2	37
36	Engineered crumpled graphene oxide nanocomposite membrane assemblies for advanced water treatment processes. <i>Environmental Science & Technology</i> , 2015 , 49, 6846-54	10.3	96
35	Surface functionalized manganese ferrite nanocrystals for enhanced uranium sorption and separation in water. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21930-21939	13	49
34	Highly Conducting, n-Type Bi ₁₂ O ₁₅ Cl ₆ Nanosheets with Superlattice-like Structure. <i>Chemistry of Materials</i> , 2015 , 27, 7710-7718	9.6	44
33	Engineered manganese oxide nanocrystals for enhanced uranyl sorption and separation. <i>Environmental Science: Nano</i> , 2015 , 2, 500-508	7.1	38
32	Transport of Sulfide-Reduced Graphene Oxide in Saturated Quartz Sand: Cation-Dependent Retention Mechanisms. <i>Environmental Science & Technology</i> , 2015 , 49, 11468-75	10.3	74
31	Effects of ultraviolet light on silver nanoparticle mobility and dissolution. <i>Environmental Science: Nano</i> , 2015 , 2, 683-691	7.1	35
30	Effects of aqueous stable fullerene nanocrystal (nC ₆₀) on <i>Scenedesmus obliquus</i> : evaluation of the sub-lethal photosynthetic responses and inhibition mechanism. <i>Chemosphere</i> , 2015 , 122, 162-167	8.4	35
29	Nanostructured Graphene-Titanium Dioxide Composites Synthesized by a Single-Step Aerosol Process for Photoreduction of Carbon Dioxide. <i>Environmental Engineering Science</i> , 2014 , 31, 428-434	2	24
28	Aqueous aggregation and surface deposition processes of engineered superparamagnetic iron oxide nanoparticles for environmental applications. <i>Environmental Science & Technology</i> , 2014 , 48, 11892-900	10.3	65
27	Photo-Oxidation of Hydrogenated Fullerene (Fullerane) in Water. <i>Environmental Science and Technology Letters</i> , 2014 , 1, 490-494	11	25
26	Facile aerosol synthesis and characterization of ternary crumpled graphene-TiO ₂ /magnetite nanocomposites for advanced water treatment. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11766-74	9.5	78

25	Reduction of hydroxylated fullerene (fullerol) in water by zinc: reaction and hemiketal product characterization. <i>Environmental Science & Technology</i> , 2014 , 48, 7384-92	10.3	21
24	Arsenic Removal by Nanoscale Magnetite in Guanajuato, Mexico. <i>Environmental Engineering Science</i> , 2014 , 31, 393-402	2	19
23	Effects of aqueous stable fullerene nanocrystal (nC60) on copper (trace necessary nutrient metal): Enhanced toxicity and accumulation of copper in <i>Daphnia magna</i> . <i>Chemosphere</i> , 2013 , 92, 1245-52	8.4	26
22	Contaminant-mobilizing capability of fullerene nanoparticles (nC60): Effect of solvent-exchange process in nC60 formation. <i>Environmental Toxicology and Chemistry</i> , 2013 , 32, 329-36	3.8	19
21	Ultralow protein adsorbing coatings from clickable PEG nanogel solutions: benefits of attachment under salt-induced phase separation conditions and comparison with PEG/albumin nanogel coatings. <i>Langmuir</i> , 2013 , 29, 4128-39	4	25
20	Tetracycline resistance gene maintenance under varying bacterial growth rate, substrate and oxygen availability, and tetracycline concentration. <i>Environmental Science & Technology</i> , 2013 , 47, 6995-7001	10.3	55
19	Measuring the grafting density of nanoparticles in solution by analytical ultracentrifugation and total organic carbon analysis. <i>Analytical Chemistry</i> , 2012 , 84, 9238-45	7.8	81
18	The structure, composition, and dimensions of TiO ₂ and ZnO nanomaterials in commercial sunscreens. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 3607-3617	2.3	96
17	Stability of water-stable C60 clusters to OH radical oxidation and hydrated electron reduction. <i>Environmental Science & Technology</i> , 2010 , 44, 3786-92	10.3	27
16	Bioaccumulation of ¹⁴ C60 by the earthworm <i>Eisenia fetida</i> . <i>Environmental Science & Technology</i> , 2010 , 44, 9170-5	10.3	50
15	<i>Escherichia coli</i> inactivation by water-soluble, ozonated C60 derivative: kinetics and mechanisms. <i>Environmental Science & Technology</i> , 2009 , 43, 7410-5	10.3	40
14	Delineating oxidative processes of aqueous C60 preparations: role of THF peroxide. <i>Environmental Science & Technology</i> , 2009 , 43, 108-13	10.3	53
13	Effects of aqueous stable fullerene nanocrystals (nC60) on <i>Daphnia magna</i> : evaluation of sub-lethal reproductive responses and accumulation. <i>Chemosphere</i> , 2009 , 77, 1482-7	8.4	72
12	Transformation of aggregated C60 in the aqueous phase by UV irradiation. <i>Environmental Science & Technology</i> , 2009 , 43, 4878-83	10.3	74
11	Transport and retention of nanoscale C60 aggregates in water-saturated porous media. <i>Environmental Science & Technology</i> , 2008 , 42, 3588-94	10.3	171
10	Microbial fuel cell biosensor for in situ assessment of microbial activity. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 586-90	11.8	135
9	Reaction of water-stable C60 aggregates with ozone. <i>Environmental Science & Technology</i> , 2007 , 41, 7497-502	10.3	115
8	A Multi-Channel Stopped-Flow Reactor for Measuring Ozone Decay Rate: Instrument Development and Application. <i>Ozone: Science and Engineering</i> , 2007 , 29, 121-129	2.4	7

7	Photochemical production of reactive oxygen species by C60 in the aqueous phase during UV irradiation. <i>Environmental Science & Technology</i> , 2007 , 41, 2529-35	10.3	135
6	Natural organic matter stabilizes carbon nanotubes in the aqueous phase. <i>Environmental Science & Technology</i> , 2007 , 41, 179-84	10.3	716
5	C60 in water: nanocrystal formation and microbial response. <i>Environmental Science & Technology</i> , 2005 , 39, 4307-16	10.3	574
4	Bacterial cell association and antimicrobial activity of a C60 water suspension. <i>Environmental Toxicology and Chemistry</i> , 2005 , 24, 2757-62	3.8	227
3	The Differential Cytotoxicity of Water-Soluble Fullerenes. <i>Nano Letters</i> , 2004 , 4, 1881-1887	11.5	892
2	Soil column evaluation of factors controlling biodegradation of DNT in the vadose zone. <i>Environmental Science & Technology</i> , 2003 , 37, 3382-91	10.3	21
1	Chemical and Photochemical Reactivity of Fullerenes in the Aqueous Phase159-195		