Chad D Vecitis

List of Publications by Year
in descending order

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74	7,178	53660	79541
papers	citations	45 h-index	73 g-index

77	77	77	7107
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electronic-Structure-Dependent Bacterial Cytotoxicity of Single-Walled Carbon Nanotubes. ACS Nano, 2010, 4, 5471-5479.	7.3	456
2	Recent advances in nanomaterials for water protection and monitoring. Chemical Society Reviews, 2017, 46, 6946-7020.	18.7	441
3	Electrochemical Multiwalled Carbon Nanotube Filter for Viral and Bacterial Removal and Inactivation. Environmental Science & Technology, 2011, 45, 3672-3679.	4.6	345
4	Treatment technologies for aqueous perfluorooctanesulfonate (PFOS) and perfluorooctanoate (PFOA). Frontiers of Environmental Science and Engineering in China, 2009, 3, 129-151.	0.8	344
5	Covalent Binding of Single-Walled Carbon Nanotubes to Polyamide Membranes for Antimicrobial Surface Properties. ACS Applied Materials & Interfaces, 2011, 3, 2869-2877.	4.0	313
6	Electrochemical Carbon-Nanotube Filter Performance toward Virus Removal and Inactivation in the Presence of Natural Organic Matter. Environmental Science & Technology, 2012, 46, 1556-1564.	4.6	256
7	Reductive Defluorination of Aqueous Perfluorinated Alkyl Surfactants: Effects of Ionic Headgroup and Chain Length. Journal of Physical Chemistry A, 2009, 113, 690-696.	1.1	251
8	Sonochemical Degradation of Perfluorooctane Sulfonate (PFOS) and Perfluorooctanoate (PFOA) in Landfill Groundwater: Environmental Matrix Effects. Environmental Science & Technology, 2008, 42, 8057-8063.	4.6	231
9	Carbon Nanotube Membrane Stack for Flow-through Sequential Regenerative Electro-Fenton. Environmental Science & Technology, 2015, 49, 2375-2383.	4.6	209
10	Kinetics and Mechanism of the Sonolytic Conversion of the Aqueous Perfluorinated Surfactants, Perfluorooctanoate (PFOA), and Perfluorooctane Sulfonate (PFOS) into Inorganic Products. Journal of Physical Chemistry A, 2008, 112, 4261-4270.	1.1	203
11	Degradation of the Common Aqueous Antibiotic Tetracycline using a Carbon Nanotube Electrochemical Filter. Environmental Science & Technology, 2015, 49, 7974-7980.	4.6	200
12	Electrochemical Carbon Nanotube Filter for Adsorption, Desorption, and Oxidation of Aqueous Dyes and Anions. Journal of Physical Chemistry C, 2011, 115, 3621-3629.	1.5	190
13	Reactive Transport Mechanism for Organic Oxidation during Electrochemical Filtration: Mass-Transfer, Physical Adsorption, and Electron-Transfer. Journal of Physical Chemistry C, 2012, 116, 374-383.	1.5	180
14	Electrochemical Carbon Nanotube Filter Oxidative Performance as a Function of Surface Chemistry. Environmental Science & Technology, 2011, 45, 9726-9734.	4.6	160
15	Sonochemical Degradation of Perfluorooctane Sulfonate (PFOS) and Perfluorooctanoate (PFOA) in Groundwater: Kinetic Effects of Matrix Inorganics. Environmental Science & Technology, 2010, 44, 445-450.	4.6	153
16	Geochemical and Hydrologic Factors Controlling Subsurface Transport of Poly- and Perfluoroalkyl Substances, Cape Cod, Massachusetts. Environmental Science & Technology, 2017, 51, 4269-4279.	4.6	150
17	Prospects of an Electroactive Carbon Nanotube Membrane toward Environmental Applications. Accounts of Chemical Research, 2020, 53, 2892-2902.	7.6	150
18	Electrochemical Water Splitting Coupled with Organic Compound Oxidation: The Role of Active Chlorine Species. Journal of Physical Chemistry C, 2009, 113, 7935-7945.	1.5	148

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19	Conductive CNT-PVDF membrane for capacitive organic fouling reduction. Journal of Membrane Science, 2014, 459, 143-156.	4.1	147
20	Experimental Anion Affinities for the Air/Water Interface. Journal of Physical Chemistry B, 2006, 110, 25598-25602.	1.2	140
21	Bismuth-Doped Tin Oxide-Coated Carbon Nanotube Network: Improved Anode Stability and Efficiency for Flow-Through Organic Electrooxidation. ACS Applied Materials & Interfaces, 2013, 5, 10054-10066.	4.0	115
22	Titanium Dioxide-Coated Carbon Nanotube Network Filter for Rapid and Effective Arsenic Sorption. Environmental Science & Technology, 2014, 48, 13871-13879.	4.6	115
23	Sonochemical Degradation of Perfluorooctanesulfonate in Aqueous Film-Forming Foams. Environmental Science & Technology, 2010, 44, 432-438.	4.6	114
24	Source Attribution of Poly- and Perfluoroalkyl Substances (PFASs) in Surface Waters from Rhode Island and the New York Metropolitan Area. Environmental Science and Technology Letters, 2016, 3, 316-321.	3.9	111
25	A graphene-based electrochemical filter for water purification. Journal of Materials Chemistry A, 2014, 2, 16554-16562.	5.2	108
26	Multiwalled Carbon Nanotube Filter: Improving Viral Removal at Low Pressure. Langmuir, 2010, 26, 14975-14982.	1.6	102
27	Perfluorinated Surfactant Chain-Length Effects on Sonochemical Kinetics. Journal of Physical Chemistry A, 2009, 113, 9834-9842.	1.1	101
28	Solar-Powered Electrochemical Oxidation of Organic Compounds Coupled with the Cathodic Production of Molecular Hydrogen. Journal of Physical Chemistry A, 2008, 112, 7616-7626.	1.1	89
29	Electrochemical wastewater treatment with carbon nanotube filters coupled with in situ generated H₂O₂. Environmental Science: Water Research and Technology, 2015, 1, 769-778.	1.2	78
30	Reductive degradation of perfluoroalkyl compounds with aquated electrons generated from iodide photolysis at 254 nm. Photochemical and Photobiological Sciences, 2011, 10, 1945-1953.	1.6	76
31	Role of Oxygen Functionalities in Graphene Oxide Architectural Laminate Subnanometer Spacing and Water Transport. Environmental Science & Technology, 2017, 51, 4280-4288.	4.6	72
32	Sorption of Perfluorochemicals to Granular Activated Carbon in the Presence of Ultrasound. Journal of Physical Chemistry A, 2011, 115, 2250-2257.	1.1	71
33	Effect of the oxidation approach on carbon nanotube surface functional groups and electrooxidative filtration performance. Journal of Materials Chemistry A, 2015, 3, 7575-7582.	5.2	71
34	Solar-Powered Production of Molecular Hydrogen from Water. Journal of Physical Chemistry C, 2008, 112, 885-889.	1.5	70
35	Doped Carbon Nanotube Networks for Electrochemical Filtration of Aqueous Phenol: Electrolyte Precipitation and Phenol Polymerization. ACS Applied Materials & Interfaces, 2012, 4, 1478-1489.	4.0	69
36	Quantitative Examination of Aqueous Ferrocyanide Oxidation in a Carbon Nanotube Electrochemical Filter: Effects of Flow Rate, Ionic Strength, and Cathode Material. Journal of Physical Chemistry C, 2013, 117, 2855-2867.	1.5	65

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37	A direct comparison of flow-by and flow-through capacitive deionization. Desalination, 2018, 444, 169-177.	4.0	65
38	Fabrication and morphology tuning of graphene oxide nanoscrolls. Nanoscale, 2016, 8, 6783-6791.	2.8	62
39	CNTâ€“PVDF composite flow-through electrode for single-pass sequential reductionâ€“oxidation. Journal of Materials Chemistry A, 2014, 2, 6185.	5.2	60
40	Isolating the AFFF Signature in Coastal Watersheds Using Oxidizable PFAS Precursors and Unexplained Organofluorine. Environmental Science & Technology, 2021, 55, 3686-3695.	4.6	56
41	Effect of clay nanoparticles on the structure and performance of polyethersulfone ultrafiltration membranes. Desalination, 2013, 314, 147-158.	4.0	55
42	Reactive Depth and Performance of an Electrochemical Carbon Nanotube Network as a Function of Mass Transport. ACS Applied Materials & Interfaces, 2012, 4, 6096-6103.	4.0	52
43	Electrocatalysis aqueous phenol with carbon nanotubes networks as anodes: Electrodes passivation and regeneration and prevention. Electrochimica Acta, 2013, 98, 131-138.	2.6	50
44	Sonolytic Decomposition of Aqueous Bioxalate in the Presence of Ozone. Journal of Physical Chemistry A, 2010, 114, 4968-4980.	1.1	47
45	How Do We Measure Poly- and Perfluoroalkyl Substances (PFASs) at the Surface of Consumer Products?. Environmental Science and Technology Letters, 2019, 6, 38-43.	3.9	46
46	How to Increase the Signal-to-Noise Ratio of Graphene Oxide Membrane Research. Journal of Physical Chemistry Letters, 2016, 7, 3791-3797.	2.1	41
47	Interlaced CNT Electrodes for Bacterial Fouling Reduction of Microfiltration Membranes. Environmental Science & Technology, 2017, 51, 9176-9183.	4.6	40
48	Toxicity of single-walled carbon nanotubes (SWCNTs): effect of lengths, functional groups and electronic structures revealed by a quantitative toxicogenomics assay. Environmental Science: Nano, 2020, 7, 1348-1364.	2.2	40
49	Mixed matrix polysulfone/clay nanoparticles ultrafiltration membranes for water treatment. Journal of Water Process Engineering, 2019, 31, 100788.	2.6	35
50	Anion dopant effects on the structure and performance of polyethersulfone membranes. Journal of Membrane Science, 2012, 421-422, 91-102.	4.1	32
51	Semiquantitative Performance and Mechanism Evaluation of Carbon Nanomaterials as Cathode Coatings for Microbial Fouling Reduction. Applied and Environmental Microbiology, 2015, 81, 4744-4755.	1.4	32
52	Enhanced performance of nitrogen-doped carbon nanotube membrane-based filtration cathode microbial fuel cell. Electrochimica Acta, 2016, 211, 199-206.	2.6	32
53	Graphene oxide standardization and classification: Methods to support the leap from lab to industry. Carbon, 2018, 133, 398-409.	5.4	28
54	Quantitative 2D electrooxidative carbon nanotube filter model: Insight into reactive sites. Carbon, 2014, 80, 651-664.	5.4	26

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55	Electric-field alignment of aqueous multi-walled carbon nanotubes on microporous substrates. Carbon, 2016, 100, 578-589.	5.4	26
56	Electrocatalytic water treatment using carbon nanotube filters modified with metal oxides. Environmental Science and Pollution Research, 2019, 26, 1036-1043.	2.7	22
57	Synergism of ozonation and electrochemical filtration during advanced organic oxidation. Journal of Hazardous Materials, 2020, 382, 121085.	6.5	22
58	Controlling Self-Assembly of Reduced Graphene Oxide at the Airâ€“Water Interface: Quantitative Evidence for Long-Range Attractive and Many-Body Interactions. ACS Applied Materials & Interfaces, 2015, 7, 3807-3815.	4.0	20
59	Synthesis and Physicochemical Transformations of Sizeâ€Sorted Graphene Oxide during Simulated Digestion and Its Toxicological Assessment against an In Vitro Model of the Human Intestinal Epithelium. Small, 2020, 16, e1907640.	5.2	20
60	Tuning electric field aligned CNT architectures via chemistry, morphology, and sonication from micro to macroscopic scale. Nanoscale, 2017, 9, 6854-6865.	2.8	18
61	A Singleâ€Use Paperâ€Shaped Microbial Fuel Cell for Rapid Aqueous Biosensing. ChemSusChem, 2015, 8, 2035-2040.	3.6	16
62	Wrinkling and Periodic Folding of Graphene Oxide Monolayers by Langmuirâ€“Blodgett Compression. Langmuir, 2017, 33, 9880-9888.	1.6	16
63	Reductive transformation of perfluorooctanesulfonate by nNiFe0-Activated carbon. Journal of Hazardous Materials, 2020, 397, 122782.	6.5	15
64	Surface-water/groundwater boundaries affect seasonal PFAS concentrations and PFAA precursor transformations. Environmental Sciences: Processes and Impacts, 2021, 23, 1893-1905.	1.7	15
65	Combined effects of phase-shift and power distribution on efficiency of dual-high-frequency sonochemistry. Ultrasonics Sonochemistry, 2018, 41, 100-108.	3.8	14
66	Dependence of Graphene Oxide (GO) Toxicity on Oxidation Level, Elemental Composition, and Size. International Journal of Molecular Sciences, 2021, 22, 10578.	1.8	11
67	Fouling reduction and recovery during forward osmosis of wastewater using an electroactive CNT composite membrane. Journal of Membrane Science, 2021, 620, 118803.	4.1	10
68	Comparative and mechanistic toxicity assessment of structure-dependent toxicity of carbon-based nanomaterials. Journal of Hazardous Materials, 2021, 418, 126282.	6.5	10
69	Antiviral-nanoparticle interactions and reactions. Environmental Science: Nano, 2021, 8, 11-19.	2.2	9
70	Controlling the Roughness of Langmuirâ€“Blodgett Monolayers. Journal of Physical Chemistry B, 2017, 121, 5078-5085.	1.2	7
71	Graphene oxide membranes on a hierarchical elemental carbon-based support. Environmental Science: Nano, 2020, 7, 891-902.	2.2	4
72	Dual-high-frequency from single-piezoelectric crystal for ACE degradation by hybrid advanced oxidation UV-sonochemistry process. Ultrasonics Sonochemistry, 2021, 78, 105731.	3.8	3

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73	CF3(CF2)7(CH2)2SH Self-Assembled on Au and Subsequent Degradation Under the Influence of Ionizing Radiation as Measured by XPS. Surface Science Spectra, 2001, 8, 32-38.	0.3	2
74	Dataset and detailed methodology for structure and performance characterization of modified polymeric membranes. Data in Brief, 2020, 28, 104862.	0.5	0