

David P Durkin

List of Publications by Year in descending order

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39
papers

1,048
citations

567281

15
h-index

414414

32
g-index

40
all docs

40
docs citations

40
times ranked

1661
citing authors

#	ARTICLE	IF	CITATIONS
1	Antimicrobial Biocomposites Fiber-Welded with Lignocellulose Containing Silver Nanoparticles. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	3.6	3
2	Mesoporous xerogel cellulose composites from biorenewable natural cotton fibers. <i>Carbohydrate Polymers</i> , 2022, 282, 119040.	10.2	17
3	Fiber-welded polyionic biocomposites using 1-alkyl-3-vinylimidazolium alkylphosphonate ionic liquids. <i>Journal of Ionic Liquids</i> , 2022, 2, 100024.	2.7	2
4	Environmental application of chlorine-doped graphitic carbon nitride: Continuous solar-driven photocatalytic production of hydrogen peroxide. <i>Journal of Hazardous Materials</i> , 2022, 436, 129251.	12.4	8
5	Kinetics of ionic liquid-facilitated cellulose decrystallization by Raman spectral mapping. <i>Cellulose</i> , 2021, 28, 1321-1330.	4.9	10
6	Photocatalytic graphitic carbon nitride-chitosan composites for pathogenic biofilm control under visible light irradiation. <i>Journal of Hazardous Materials</i> , 2021, 408, 124890.	12.4	26
7	Development of Electrospun Nanofibrous Filters for Controlling Coronavirus Aerosols. <i>Environmental Science and Technology Letters</i> , 2021, 8, 545-550.	8.7	30
8	Ion Dynamics and Transport Properties of Lewis-Acidic Imidazolium Chloroaluminate Ionic Liquids. <i>Journal of the Electrochemical Society</i> , 2021, 168, 066515.	2.9	4
9	Radical-Driven Decomposition of Graphitic Carbon Nitride Nanosheets: Light Exposure Matters. <i>Environmental Science & Technology</i> , 2021, 55, 12414-12423.	10.0	25
10	Fe-based single-atom catalysis for oxidizing contaminants of emerging concern by activating peroxides. <i>Journal of Hazardous Materials</i> , 2021, 418, 126294.	12.4	34
11	Photothermal actuation of levitated pyrolytic graphite revised. <i>APL Materials</i> , 2021, 9, 101107.	5.1	4
12	Lignocellulose-stabilized iron-palladium nanomagnetic biocomposites. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 497, 165964.	2.3	8
13	Influence of Oxygen-Containing Functional Groups on the Environmental Properties, Transformations, and Toxicity of Carbon Nanotubes. <i>Chemical Reviews</i> , 2020, 120, 11651-11697.	47.7	84
14	With Anchors Aweigh, Synchronous Instruction Preferred by Naval Academy Instructors in Small Undergraduate Chemistry Classes. <i>Journal of Chemical Education</i> , 2020, 97, 2383-2388.	2.3	14
15	3D printed photoreactor with immobilized graphitic carbon nitride: A sustainable platform for solar water purification. <i>Journal of Hazardous Materials</i> , 2020, 399, 123097.	12.4	37
16	Preferential leaching of indium metal during room temperature ionic liquid processing of Pd-In nanoparticle-biopolymer composites. <i>Materials Chemistry and Physics</i> , 2020, 249, 123179.	4.0	2
17	Determining the Thermal Properties of Military Jet Fuel JP-5 and Surrogate Mixtures Using Differential Scanning Calorimetry/Thermogravimetric Analysis and Differential Scanning Calorimetry Methods. <i>Energy & Fuels</i> , 2020, 34, 4046-4054.	5.1	1
18	Natural Fiber Welding. <i>Green Chemistry and Sustainable Technology</i> , 2020, , 211-226.	0.7	4

#	ARTICLE	IF	CITATIONS
19	Charge Transport and Dynamics in Imidazolium Chloroaluminate Ionic Liquids. ECS Transactions, 2020, 98, 117-127.	0.5	1
20	Developing Polyionic Biocomposite Materials through Natural Fiber Welding. ECS Transactions, 2020, 98, 99-113.	0.5	1
21	Evaluating the Ion Transport of 1-Ethyl-3-Methylimidazolium Acetate Solutions Containing Carbohydrate Solutes. Journal of the Electrochemical Society, 2019, 166, H721-H729.	2.9	5
22	Copper release and transformation following natural weathering of nano-enabled pressure-treated lumber. Science of the Total Environment, 2019, 668, 234-244.	8.0	12
23	The Apparent Superionicity of Ionic Liquid Solutions Containing Cellulose. Journal of the Electrochemical Society, 2019, 166, H140-H145.	2.9	3
24	Engineering Lignocellulose Fibers with Higher Thermal Stability through Natural Fiber Welding. Macromolecular Materials and Engineering, 2019, 304, 1900042.	3.6	8
25	Sustainable and scalable natural fiber welded palladium-indium catalysts for nitrate reduction. Applied Catalysis B: Environmental, 2018, 221, 290-301.	20.2	50
26	The Impact of Carbohydrate Solutes on the Ionicity of 1-Ethyl-3-Methylimidazolium Acetate Ionic Liquid Solutions. ECS Transactions, 2018, 86, 279-286.	0.5	0
27	Impact of Silanization on the Structure, Dispersion Properties, and Biodegradability of Nanocellulose as a Nanocomposite Filler. ACS Applied Nano Materials, 2018, 1, 7025-7038.	5.0	38
28	Evaluating the Effect of Applied Tension during Natural Fiber Welding of Lignocellulose Yarns. ECS Transactions, 2018, 86, 269-277.	0.5	1
29	Cellulose, Cellobiose, and Glucose Cause Similar Decreases to Molar Conductivity and Drastically Different Increases to Dynamic Viscosity of 1-Ethyl-3-Methylimidazolium Acetate Based Solvents. ECS Transactions, 2018, 86, 257-268.	0.5	0
30	Ionic Liquid Property Effects on the Natural Fiber Welding Process. ECS Transactions, 2018, 86, 249-255.	0.5	2
31	Pd Nanoparticle Catalysts Supported on Nitrogen-Functionalized Activated Carbon for Oxyanion Hydrogenation and Water Purification. ACS Applied Nano Materials, 2018, 1, 6580-6586.	5.0	10
32	Integration of Functional Nanomaterials in Biopolymer Composites Using Ionic Liquid Based Methods. ECS Transactions, 2018, 86, 287-296.	0.5	4
33	Mechanism of humic acid fouling in a photocatalytic membrane system. Journal of Membrane Science, 2018, 563, 531-540.	8.2	46
34	Phosphorus-functionalized multi-wall carbon nanotubes as flame-retardant additives for polystyrene and poly (methyl methacrylate). Journal of Thermal Analysis and Calorimetry, 2017, 130, 735-753.	3.6	25
35	Graphitic Carbon Nitride Supported Ultrafine Pd and Pd-Cu Catalysts: Enhanced Reactivity, Selectivity, and Longevity for Nitrite and Nitrate Hydrogenation. ACS Applied Materials & Interfaces, 2017, 9, 27421-27426.	8.0	54
36	Enhancement of Nitrite Reduction Kinetics on Electrospun Pd-Carbon Nanomaterial Catalysts for Water Purification. ACS Applied Materials & Interfaces, 2016, 8, 17739-17744.	8.0	32

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37	Lignocellulose Fiber- and Welded Fiber- Supports for Palladium-Based Catalytic Hydrogenation: A Natural Fiber Welding Application for Water Treatment. ACS Sustainable Chemistry and Engineering, 2016, 4, 5511-5522.	6.7	29
38	Visible-Light-Responsive Graphitic Carbon Nitride: Rational Design and Photocatalytic Applications for Water Treatment. Environmental Science & Technology, 2016, 50, 12938-12948.	10.0	261
39	Natural Fiber Welded Electrode Yarns for Knittable Textile Supercapacitors. Advanced Energy Materials, 2015, 5, 1401286.	19.5	152