

Suelen Barg

List of Publications by Year in descending order

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37
papers

2,502
citations

304743

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docs citations

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times ranked

3414
citing authors

#	ARTICLE	IF	CITATIONS
1	Heteroatom-Doped and Oxygen-Functionalized Nanocarbons for High-Performance Supercapacitors. <i>Advanced Energy Materials</i> , 2020, 10, 2001239.	19.5	362
2	3D Printing of Freestanding MXene Architectures for Current-Collector-Free Supercapacitors. <i>Advanced Materials</i> , 2019, 31, e1902725.	21.0	311
3	Printing in Three Dimensions with Graphene. <i>Advanced Materials</i> , 2015, 27, 1688-1693.	21.0	266
4	Mesoscale assembly of chemically modified graphene into complex cellular networks. <i>Nature Communications</i> , 2014, 5, 4328.	12.8	250
5	Self-Healing Graphene-Based Composites with Sensing Capabilities. <i>Advanced Materials</i> , 2015, 27, 4788-4794.	21.0	136
6	Cellular Ceramics by Direct Foaming of Emulsified Ceramic Powder Suspensions. <i>Journal of the American Ceramic Society</i> , 2008, 91, 2823-2829.	3.8	122
7	Light and Strong SiC Networks. <i>Advanced Functional Materials</i> , 2016, 26, 1636-1645.	14.9	109
8	Joule Heating Characteristics of Emulsion-Templated Graphene Aerogels. <i>Advanced Functional Materials</i> , 2015, 25, 28-35.	14.9	99
9	MXene-Based Anodes for Metal-Ion Batteries. <i>Batteries and Supercaps</i> , 2020, 3, 214-235.	4.7	75
10	Unravelling the Mechanism of Rechargeable Aqueous Zn-MnO ₂ Batteries: Implementation of Charging Process by Electrodeposition of MnO ₂ . <i>ChemSusChem</i> , 2020, 13, 4103-4110.	6.8	74
11	New cellular ceramics from high alkane phase emulsified suspensions (HAPES). <i>Journal of the European Ceramic Society</i> , 2009, 29, 2439-2446.	5.7	64
12	Understanding Mechanical Response of Elastomeric Graphene Networks. <i>Scientific Reports</i> , 2015, 5, 13712.	3.3	64
13	MXene Tunable Lamellae Architectures for Supercapacitor Electrodes. <i>ACS Applied Energy Materials</i> , 2020, 3, 411-422.	5.1	46
14	Development of a Novel Zinc/Air Fuel Cell with a Zn Foam Anode, a PVA/KOH Membrane and a MnO ₂ /SiOC-Based Air Cathode. <i>ECS Transactions</i> , 2010, 28, 13-24.	0.5	42
15	MXene-based 3D porous macrostructures for electrochemical energy storage. <i>JPhys Materials</i> , 2020, 3, 022001.	4.2	42
16	Physical and high-temperature permeation features of double-layered cellular filtering membranes prepared via freeze casting of emulsified powder suspensions. <i>Journal of Membrane Science</i> , 2011, 383, 35-43.	8.2	40
17	Macroporous polymer nanocomposites synthesised from high internal phase emulsion templates stabilised by reduced graphene oxide. <i>Polymer</i> , 2014, 55, 395-402.	3.8	39
18	Processing and Properties of Graded Ceramic Filters. <i>Journal of the American Ceramic Society</i> , 2009, 92, 2854-2860.	3.8	38

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19	Freeze-assisted Tape Casting of Vertically Aligned MXene Films for High Rate Performance Supercapacitors. <i>Energy and Environmental Materials</i> , 2020, 3, 380-388.	12.8	38
20	SiC porous structures obtained with innovative shaping technologies. <i>Journal of the European Ceramic Society</i> , 2018, 38, 823-835.	5.7	34
21	Designing Smart Particles for the Assembly of Complex Macroscopic Structures. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7805-7808.	13.8	26
22	Direct 3D printing of graphene using capillary suspensions. <i>Nanoscale</i> , 2020, 12, 11440-11447.	5.6	26
23	Joule Heating and mechanical properties of epoxy/graphene based aerogel composite. <i>Composites Science and Technology</i> , 2022, 218, 109199.	7.8	23
24	Cellular ceramics from emulsified suspensions of mixed particles. <i>Journal of Porous Materials</i> , 2012, 19, 859-867.	2.6	19
25	Oxygen feed membranes in autothermal steam-reformers – A robust temperature control. <i>Fuel</i> , 2010, 89, 1257-1264.	6.4	18
26	Alkali-cation-incorporated and functionalized iron oxide nanoparticles for methyl blue removal/decomposition. <i>Nanotechnology</i> , 2020, 31, 425703.	2.6	18
27	Processing of Open Porous Zirconia via Alkane-Phase Emulsified Suspensions for Plasma Applications. <i>International Journal of Applied Ceramic Technology</i> , 2011, 8, 85-93.	2.1	17
28	Realization of 3D epoxy resin/Ti ₃ C ₂ T _x MXene aerogel composites for low-voltage electrothermal heating. <i>2D Materials</i> , 2021, 8, 025022.	4.4	17
29	A novel approach for the fabrication of carbon nanofibre/ceramic porous structures. <i>Journal of the European Ceramic Society</i> , 2013, 33, 2365-2374.	5.7	15
30	Nanoparticle-enhanced multifunctional nanocarbons – recent advances on electrochemical energy storage applications. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 413001.	2.8	15
31	Investigating the rheology of 2D titanium carbide (MXene) dispersions for colloidal processing: Progress and challenges. <i>Journal of Materials Research</i> , 2021, 36, 4578-4600.	2.6	14
32	Tailoring the Microstructure of Lamellar Ti ₃ C ₂ T _x MXene Aerogel by Compressive Straining. <i>ACS Nano</i> , 2022, 16, 1896-1908.	14.6	10
33	Complex ceramic architectures by directed assembly of “responsive” particles. <i>Journal of the European Ceramic Society</i> , 2017, 37, 199-211.	5.7	9
34	All-In-One MXene – Boron Nitride – MXene – OREO with Vertically Aligned Channels for Flexible Structural Supercapacitor Design. <i>ACS Applied Energy Materials</i> , 2021, 4, 7959-7972.	5.1	7
35	Ice-templated hybrid graphene oxide – graphene nanoplatelet lamellar architectures: tuning mechanical and electrical properties. <i>Nanotechnology</i> , 2021, 32, 205601.	2.6	6
36	Unused to useful: Recycling plasma chamber coated waste composite of ZnO and Fe ₂ O ₃ into an active material for sustainable waste-water treatment. <i>Chemical Engineering Journal Advances</i> , 2021, 7, 100120.	5.2	4

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37	MXene-Based Anodes for Metal-Ion Batteries. Batteries and Supercaps, 2020, 3, 211-211.	4.7	1