Mark A Bissett

List of Publications by Year
in descending order

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71	4,081	159585 30	114465 63
papers	citations	h-index	g-index

75	75	75	6989
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanisms of reinforcement of PVA-Based nanocomposites by hBN nanosheets. Composites Science and Technology, 2022, 218, 109131.	7.8	10
2	Joule Heating and mechanical properties of epoxy/graphene based aerogel composite. Composites Science and Technology, 2022, 218, 109199.	7.8	23
3	Self-Assembled 1T-MoS₂/Functionalized Graphene Composite Electrodes for Supercapacitor Devices. ACS Applied Energy Materials, 2022, 5, 61-70.	5.1	31
4	Deformation of and Interfacial Stress Transfer in Ti₃C₂ MXeneâ€“Polymer Composites. ACS Applied Materials & Interfaces, 2022, 14, 10681-10690.	8.0	19
5	A Review on Printing of Responsive Smart and 4D Structures Using 2D Materials. Advanced Materials Technologies, 2022, 7, .	5.8	11
6	The modified liquid | liquid interface: An electrochemical route for the electrode-less synthesis of MoS2 metal composite thin films. Electrochimica Acta, 2022, 424, 140609.	5.2	3
7	Graphene Wrapped Siox/C Hollow Spheres Composites Via Molecular Polymerization As High Performance Libs Anodes. ECS Meeting Abstracts, 2022, MA2022-01, 419-419.	0.0	0
8	Electrically Conductive 2D Material Coatings for Flexible and Stretchable Electronics: A Comparative Review of Graphenes and MXenes. Advanced Functional Materials, 2022, 32, .	14.9	52
9	Investigation of Voltage Range and Selfâ€Discharge in Aqueous Zincâ€Ion Hybrid Supercapacitors. ChemSusChem, 2021, 14, 1700-1709.	6.8	51
10	Interlayer and interfacial stress transfer in hBN nanosheets. 2D Materials, 2021, 8, 035058.	4.4	13
11	MoS2 Nanosheet-Coated Carbon Fibers as Strain Sensors in Epoxy Composites. ACS Applied Nano Materials, 2021, 4, 9181-9189.	5.0	3
12	Effect of graphene nanoplatelets on the mechanical and gas barrier properties of woven carbon fibre/epoxy composites. Journal of Materials Science, 2021, 56, 19538-19551.	3.7	17
13	Unlocking the energy storage potential of polypyrrole via electrochemical graphene oxide for high performance zinc-ion hybrid supercapacitors. Journal of Power Sources, 2021, 516, 230663.	7.8	36
14	The Modified Liquidâ€Liquid Interface: The Effect of an Interfacial Layer of MoS₂ on Ion Transfer. ChemElectroChem, 2021, 8, 4445-4455.	3.4	11
15	The Modified Liquidâ€Liquid Interface: The Effect of an Interfacial Layer of MoS 2 on Ion Transfer. ChemElectroChem, 2021, 8, 4393.	3.4	0
16	Tunable charge/size selective ion sieving with ultrahigh water permeance through laminar graphene membranes. Carbon, 2020, 156, 119-129.	10.3	41
17	MXeneâ€Based Anodes for Metalâ€Ion Batteries. Batteries and Supercaps, 2020, 3, 214-235.	4.7	75
18	Potential dependent ionic sieving through functionalized laminar MoS₂ membranes. 2D Materials, 2020, 7, 015030.	4.4	21

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19	Multifunctional Biocomposites Based on Polyhydroxyalkanoate and Graphene/Carbon Nanofiber Hybrids for Electrical and Thermal Applications. ACS Applied Polymer Materials, 2020, 2, 3525-3534.	4.4	44
20	Grapheneâ€“Polyurethane Coatings for Deformable Conductors and Electromagnetic Interference Shielding. Advanced Electronic Materials, 2020, 6, 2000429.	5.1	25
21	Unravelling the Mechanism of Rechargeable Aqueous Znâ€“MnO₂ Batteries: Implementation of Charging Process by Electrodeposition of MnO₂. ChemSusChem, 2020, 13, 4103-4110.	6.8	74
22	Graphene-Enabled Adaptive Infrared Textiles. Nano Letters, 2020, 20, 5346-5352.	9.1	98
23	Sustainable, High-Barrier Polyaleuritate/Nanocellulose Biocomposites. ACS Sustainable Chemistry and Engineering, 2020, 8, 10682-10690.	6.7	9
24	Hybrid Graphene/Carbon Nanofiber Wax Emulsion for Paperâ€Based Electronics and Thermal Management. Advanced Electronic Materials, 2020, 6, 2000232.	5.1	24
25	MXeneâ€Based Anodes for Metalâ€Ion Batteries. Batteries and Supercaps, 2020, 3, 211-211.	4.7	1
26	Strain engineering in monolayer WS₂ and WS₂ nanocomposites. 2D Materials, 2020, 7, 045022.	4.4	40
27	Simultaneous Electrochemical Exfoliation and Chemical Functionalization of Graphene for Supercapacitor Electrodes. Journal of the Electrochemical Society, 2020, 167, 110531.	2.9	11
28	Graphene-Based Materials as Strain Sensors in Glass Fiber/Epoxy Model Composites. ACS Applied Materials & Interfaces, 2019, 11, 31338-31345.	8.0	14
29	3D Printing of Freestanding MXene Architectures for Currentâ€Collectorâ€Free Supercapacitors. Advanced Materials, 2019, 31, e1902725.	21.0	311
30	Synthetic 2-D lead tin sulfide nanosheets with tuneable optoelectronic properties from a potentially scalable reaction pathway. Chemical Science, 2019, 10, 1035-1045.	7.4	16
31	Capacitance of Basal Plane and Edge-Oriented Highly Ordered Pyrolytic Graphite: Specific Ion Effects. Journal of Physical Chemistry Letters, 2019, 10, 617-623.	4.6	50
32	Electrochemical intercalation of MoO3-MoS2 composite electrodes: Charge storage mechanism of non-hydrated cations. Electrochimica Acta, 2019, 307, 176-187.	5.2	29
33	A single step strategy to fabricate graphene fibres via electrochemical exfoliation for micro-supercapacitor applications. Electrochimica Acta, 2019, 299, 645-653.	5.2	35
34	Electrical percolation in grapheneâ€“polymer composites. 2D Materials, 2018, 5, 032003.	4.4	266
35	Reduced graphene oxide/Fe-phthalocyanine nanosphere cathodes for lithium-ion batteries. Journal of Materials Science, 2018, 53, 9170-9179.	3.7	16
36	Black phosphorus with near-superhydrophobic properties and long-term stability in aqueous media. Chemical Communications, 2018, 54, 3831-3834.	4.1	28

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37	Long-range oriented graphene-like nanosheets with corrugated structure. Chemical Communications, 2018, 54, 13543-13546.	4.1	3
38	Fabrication of a Graphene-Based Paper-Like Electrode for Flexible Solid-State Supercapacitor Devices. Journal of the Electrochemical Society, 2018, 165, A3481-A3486.	2.9	27
39	Anodic dissolution growth of metalâ€“organic framework HKUST-1 monitored via in situ electrochemical atomic force microscopy. CrystEngComm, 2018, 20, 4421-4427.	2.6	15
40	Effect of functional groups on the agglomeration of graphene in nanocomposites. Composites Science and Technology, 2018, 163, 116-122.	7.8	51
41	Hydrogen Evolution at Liquid|Liquid Interfaces Catalyzed by 2D Materials. ChemNanoMat, 2017, 3, 428-435.	2.8	29
42	Enhanced Photoluminescence of Solution-Exfoliated Transition Metal Dichalcogenides by Laser Etching. ACS Omega, 2017, 2, 738-745.	3.5	13
43	Desalination and Nanofiltration through Functionalized Laminar MoS₂ Membranes. ACS Nano, 2017, 11, 11082-11090.	14.6	275
44	Synthesis, structure and applications of graphene-based 2D heterostructures. Chemical Society Reviews, 2017, 46, 4572-4613.	38.1	275
45	Comparison of Two-Dimensional Transition Metal Dichalcogenides for Electrochemical Supercapacitors. Electrochimica Acta, 2016, 201, 30-37.	5.2	211
46	Facile fabrication of metalâ€“organic framework HKUST-1-based rewritable data storage devices. Journal of Materials Chemistry C, 2016, 4, 8687-8695.	5.5	25
47	Asymmetric MoS₂/Graphene/Metal Sandwiches: Preparation, Characterization, and Application. Advanced Materials, 2016, 28, 8256-8264.	21.0	64
48	Metal-organic framework templated electrodeposition of functional gold nanostructures. Electrochimica Acta, 2016, 222, 361-369.	5.2	40
49	Photoelectrochemistry of Pristine Mono- and Few-Layer MoS₂. Nano Letters, 2016, 16, 2023-2032.	9.1	107
50	Electrochemical deposition of zeolitic imidazolate framework electrode coatings for supercapacitor electrodes. Electrochimica Acta, 2016, 197, 228-240.	5.2	116
51	Synthesis of Lateral Size-Controlled Monolayer 1H-MoS₂@Oleylamine as Supercapacitor Electrodes.. Chemistry of Materials, 2016, 28, 657-664.	6.7	134
52	Electron transfer kinetics on natural crystals of MoS₂ and graphite. Physical Chemistry Chemical Physics, 2015, 17, 17844-17853.	2.8	57
53	Tunable doping of graphene nanoribbon arrays by chemical functionalization. Nanoscale, 2015, 7, 3572-3580.	5.6	19
54	Characterization of MoS₂â€“Graphene Composites for High-Performance Coin Cell Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 17388-17398.	8.0	388

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55	Increased chemical reactivity achieved by asymmetrical â€˜Janusâ€™ functionalisation of graphene. RSC Advances, 2014, 4, 52215-52219.	3.6	28
56	Strain engineering the properties of graphene and other two-dimensional crystals. Physical Chemistry Chemical Physics, 2014, 16, 11124-11138.	2.8	199
57	Enhanced Chemical Reactivity of Graphene Induced by Mechanical Strain. ACS Nano, 2013, 7, 10335-10343.	14.6	157
58	Epitaxial Growth and Electronic Properties of Large Hexagonal Graphene Domains on Cu(111) Thin Film. Applied Physics Express, 2013, 6, 075101.	2.4	83
59	Mechanical Strain of Chemically Functionalized Chemical Vapor Deposition Grown Graphene. Journal of Physical Chemistry C, 2013, 117, 3152-3159.	3.1	46
60	Effect of Domain Boundaries on the Raman Spectra of Mechanically Strained Graphene. ACS Nano, 2012, 6, 10229-10238.	14.6	73
61	Electron transfer through Î±-peptides attached to vertically aligned carbon nanotube arrays: a mechanistic transition. Chemical Communications, 2012, 48, 1132-1134.	4.1	36
62	Comparison of carbon nanotube modified electrodes for photovoltaic devices. Carbon, 2012, 50, 2431-2441.	10.3	13
63	Transition from single to multi-walled carbon nanotubes grown by inductively coupled plasma enhanced chemical vapor deposition. Journal of Applied Physics, 2011, 110, .	2.5	6
64	Dendron growth from vertically aligned single-walled carbon nanotube thin layer arrays for photovoltaic devices. Physical Chemistry Chemical Physics, 2011, 13, 6059.	2.8	18
65	High-order graphene oxide nanoarchitectures. Nanoscale, 2011, 3, 3076.	5.6	5
66	Dye functionalisation of PAMAM-type dendrons grown from vertically aligned single-walled carbon nanotube arrays for light harvesting antennae. Journal of Materials Chemistry, 2011, 21, 18597.	6.7	6
67	Raman Characterisation of Carbon Nanotubes Grown by Plasma Enhanced Chemical Vapour Deposition. Materials Science Forum, 2011, 700, 112-115.	0.3	0
68	Electrochemistry and Photocurrent Response from Vertically-Aligned Chemically-Functionalized Single-Walled Carbon Nanotube Arrays. Journal of the Electrochemical Society, 2011, 158, K53.	2.9	9
69	Photocurrent Response from Vertically Aligned Single-Walled Carbon Nanotube Arrays. Journal of Physical Chemistry C, 2010, 114, 6778-6783.	3.1	31
70	Photocurrent response from vertically aligned single-walled carbon nanotube arrays. , 2010, , .		5
71	Designing Functionalized Porphyrins Capable of Pseudo-2D Self-Assembly on Surfaces. Organic Letters, 2008, 10, 2943-2946.	4.6	9