Shawn Bourdo

List of Publications by Year in descending order

56 papers	1,698 citations	304743 22 h-index	289244 40 g-index
57 all docs	57 docs citations	57 times ranked	2963 citing authors

#	Article	IF	Citations
1	Improved efficiency of inverted planar perovskite solar cells with an ultrahigh work function doped polymer as an alternative hole transport layer. Journal of Materials Chemistry C, 2022, 10, 4411-4423.	5.5	2
2	Synthesis of â€œNakedâ€•TeO₂Nanoparticles for Biomedical Applications. ACS Omega, 2022, 7, 23685-23694.	3.5	3
3	Dendritic cell biocompatibility of etherâ€based urethane films. Journal of Applied Toxicology, 2021, 41, 1456-1466.	2.8	2
4	Surface Passivation of Triple-Cation Perovskite via Organic Halide-Saturated Antisolvent for Inverted Planar Solar Cells. ACS Applied Energy Materials, 2021, 4, 3297-3309.	5.1	13
5	Evaluation of a bone filler scaffold for local antibiotic delivery to prevent Staphylococcus aureus infection in a contaminated bone defect. Scientific Reports, 2021, 11, 10254.	3.3	12
6	Genetic profiling of human bone marrow and adipose tissue-derived mesenchymal stem cells reveals differences in osteogenic signaling mediated by graphene. Journal of Nanobiotechnology, 2021, 19, 285.	9.1	9
7	Acid-free polyaniline:graphene-oxide hole transport layer in organic solar cells. Journal of Materials Science: Materials in Electronics, 2020, 31, 21640-21650.	2.2	11
8	Functionalized Graphene Nanoparticles Induce Human Mesenchymal Stem Cells to Express Distinct Extracellular Matrix Proteins Mediating Osteogenesis . International Journal of Nanomedicine, 2020, Volume 15, 2501-2513.	6.7	27
9	Graphene-based 2D constructs for enhanced fibroblast support. PLoS ONE, 2020, 15, e0232670.	2.5	14
10	Phosphate removal from wastewater using novel renewable resource-based, cerium/manganese oxide-based nanocomposites. Environmental Science and Pollution Research, 2020, 27, 36688-36703.	5.3	13
11	Multiomics Evaluation of Human Fat-Derived Mesenchymal Stem Cells on an Osteobiologic Nanocomposite. BioResearch Open Access, 2020, 9, 37-50.	2.6	6
12	Optimizing Lignosulfonic Acid-Grafted Polyaniline as a Hole-Transport Layer for Inverted CH₃NH₃PbI₃Perovskite Solar Cells. ACS Omega, 2020, 5, 1887-1901.	3.5	23
13	Quantification of cellular associated graphene and induced surface receptor responses. Nanoscale, 2019, 11, 932-944.	5.6	10
14	Evaluation of a Polyurethane Platform for Delivery of Nanohydroxyapatite and Decellularized Bone Particles in a Porous Three-Dimensional Scaffold. ACS Applied Bio Materials, 2019, 2, 1815-1829.	4.6	11
15	Cytotoxicity profile of pristine graphene on brain microvascular endothelial cells. Journal of Applied Toxicology, 2019, 39, 966-973.	2.8	10
16	Polyurethane/nano-hydroxyapatite composite films as osteogenic platforms. Journal of Biomaterials Science, Polymer Edition, 2018, 29, 1426-1443.	3.5	18
17	In vivo noninvasive analysis of graphene nanomaterial pharmacokinetics using photoacoustic flow cytometry. Journal of Applied Toxicology, 2017, 37, 1297-1304.	2.8	11
18	T lymphocytes dominate local leukocyte infiltration in response to intradermal injection of functionalized grapheneâ€based nanomaterial. Journal of Applied Toxicology, 2017, 37, 1317-1324.	2.8	12

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19	p53â€competent cells and p53â€deficient cells display different susceptibility to oxygen functionalized graphene cytotoxicity and genotoxicity. Journal of Applied Toxicology, 2017, 37, 1333-1345.	2.8	12
20	Graphene nanoparticles as osteoinductive and osteoconductive platform for stem cell and bone regeneration. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 2117-2126.	3.3	52
21	Hybrid Perovskite Photovoltaic Devices: Properties, Architecture, and Fabrication Methods. Energy Technology, 2017, 5, 373-401.	3.8	26
22	Physicochemical characteristics of pristine and functionalized graphene. Journal of Applied Toxicology, 2017, 37, 1288-1296.	2.8	22
23	Functionalized gold nanorod nanocomposite system to modulate differentiation of human mesenchymal stem cells into neural-like progenitors. Scientific Reports, 2017, 7, 16654.	3.3	20
24	The role of surface chemistry in the cytotoxicity profile of graphene. Journal of Applied Toxicology, 2017, 37, 462-470.	2.8	38
25	Ammonia Gas Sensing Behavior of Tanninsulfonic Acid Doped Polyaniline-TiO2 Composite. Sensors, 2015, 15, 26415-26429.	3.8	43
26	Performance dependence of SWCNT/n-silicon hybrid solar cells on the charge carrier concentration in silicon substrates. RSC Advances, 2015, 5, 621-627.	3.6	7
27	Electrocatalytic and supercapacitor performance of Phosphorous and Nitrogen co-doped Porous Carbons synthesized from Aminated Tannins. Electrochimica Acta, 2015, 182, 987-994.	5.2	33
28	Comparative Aging Study of Organic Solar Cells Utilizing Polyaniline and PEDOT:PSS as Hole Transport Layers. ACS Applied Materials & Interfaces, 2015, 7, 27667-27675.	8.0	45
29	Graphene supports in vitro proliferation and osteogenic differentiation of goat adult mesenchymal stem cells: potential for bone tissue engineering. Journal of Applied Toxicology, 2015, 35, 367-374.	2.8	122
30	Tuning the work function of polyaniline via camphorsulfonic acid: an X-ray photoelectron spectroscopy investigation. RSC Advances, 2015, 5, 33-40.	3.6	49
31	Calcium-channel blocking and nanoparticles-based drug delivery for treatment of drug-resistant human cancers. Therapeutic Delivery, 2014, 5, 763-780.	2.2	8
32	Oxygen Reduction Reaction Studies of Phosphorus and Nitrogen Coâ€Doped Mesoporous Carbon Synthesized via Microwave Technique. ChemElectroChem, 2014, 1, 573-579.	3.4	67
33	Phosphorous and nitrogen dual heteroatom doped mesoporous carbon synthesized via microwave method for supercapacitor application. Journal of Power Sources, 2014, 250, 257-265.	7.8	216
34	Microwave-Assisted Synthesis of Nitrogen and Phosphorus Co-Doped Mesoporous Carbon and Their Potential Application in Alkaline Fuel Cells. Science of Advanced Materials, 2013, 5, 1275-1281.	0.7	25
35	Single-walled carbon nanotubes as specific targeting and Raman spectroscopic agents for detection and discrimination of single human breast cancer cells. Journal of Biomedical Optics, 2013, 18, 055003.	2.6	26
36	Separation and spectroscopic/molecular weight analysis of crude and purified polyaniline(s). Journal of Polymer Research, 2013, 20, 1.	2.4	8

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37	Organic Solar Cells: A Review of Materials, Limitations, and Possibilities for Improvement. Particulate Science and Technology, 2013, 31, 427-442.	2.1	150
38	Solar cells with graphene and carbon nanotubes on silicon. Journal of Experimental Nanoscience, 2013, 8, 565-572.	2.4	9
39	Low-temperature (150Â°C) carbon nanotube growth on a catalytically active iron oxideâ€“graphene nano-structural system. Journal of Catalysis, 2013, 299, 307-315.	6.2	10
40	Optimization of the Protonation Level of Polyanilineâ€Based Holeâ€Transport Layers in Bulkâ€Heterojunction Organic Solar Cells. Energy Technology, 2013, 1, 463-470.	3.8	32
41	New Route of Microwave-Assisted Synthesis of Carbon-Supported Nickel Phosphide (C/Ni2P) Nanocomposite. Phosphorus, Sulfur and Silicon and the Related Elements, 2013, 188, 768-777.	1.6	3
42	Electrical transport and Raman spectral studies of (110)-oriented PrBa2 (Cu0.8M0.2)3O7 (M = Ga, Al, Zn,) Tj ETQq0 0 0 rgBT /Overlock	2.5	1
43	Electrical transport properties of (110)-oriented PrBa2(Cu0.8Ga0.2)3O7 thin films. Applied Physics Letters, 2012, 100, 252601.	3.3	2
44	Photovoltaic Device Performance of Single-Walled Carbon Nanotube and Polyaniline Films on n-Si: Device Structure Analysis. ACS Applied Materials & Interfaces, 2012, 4, 363-368.	8.0	25
45	Electrical and thermal properties of graphite/polyaniline composites. Journal of Solid State Chemistry, 2012, 196, 309-313.	2.9	25
46	Novel Microwave-Assisted Synthesis of Renewable-Resource Based Carbon-Magnetite Nanocomposites. Journal of Wood Chemistry and Technology, 2012, 32, 268-278.	1.7	2
47	Catalytic Conversion of Graphene into Carbon Nanotubes via Gold Nanoclusters at Low Temperatures. ACS Nano, 2012, 6, 501-511.	14.6	24
48	Synthesis and characterization of tanninsulfonic acid doped polyanilineâ€“metal oxide nanocomposites. Journal of Applied Polymer Science, 2012, 124, 3320-3328.	2.6	13
49	Novel Microwave-Assisted Synthesis of Nickel/Carbon (Ni/C) Nanocomposite with Tannin as the Carbon Source. Journal of Wood Chemistry and Technology, 2011, 31, 345-356.	1.7	7
50	Evaluation of a Renewable Resource-based Carbon-Iron Oxide Nanocomposite for Removal of Arsenic from Contaminated Water. Journal of Macromolecular Science - Pure and Applied Chemistry, 2011, 48, 348-354.	2.2	12
51	Exceptional Superhydrophobicity and Low Velocity Impact Icephobicity of Acetone-Functionalized Carbon Nanotube Films. Langmuir, 2011, 27, 9936-9943.	3.5	96
52	Hierarchical ZnO Structure with Superhydrophobicity and High Adhesion. ChemPhysChem, 2011, 12, 2412-2414.	2.1	15
53	Electrical, Optical, and Morphological Properties of P3HT-MWNT Nanocomposites Prepared by in Situ Polymerization. Journal of Physical Chemistry C, 2009, 113, 8023-8029.	3.1	97
54	Structural, Electrical, and Thermal Behavior of Graphiteâ€Polyaniline Composites with Increased Crystallinity. Advanced Functional Materials, 2008, 18, 432-440.	14.9	68

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55	Graphite/Polyaniline (GP) composites: Synthesis and characterization. Carbon, 2005, 43, 2983-2988.	10.3	71
56	Catalytic effects of selected transition metal ions in the synthesis of lignosulfonic acid doped polyaniline. Journal of Applied Polymer Science, 2005, 98, 29-33.	2.6	9