

# James D Mcgettrick

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

1,666  
citations

304743

22  
h-index

289244

40  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2947  
citing authors

#	ARTICLE	IF	CITATIONS
1	Glassy carbon manufacture using rapid photonic curing. <i>Journal of Materials Science</i> , 2022, 57, 299-310.	3.7	0
2	Photocatalytic H <sub>2</sub> production and degradation of aqueous 2-chlorophenol over B/N-graphene-coated CuO/TiO <sub>2</sub> : A DFT, experimental and mechanistic investigation. <i>Journal of Environmental Management</i> , 2022, 311, 114822.	7.8	11
3	Improvement in liquid absorption of $\text{Ca}^{2+}$ polymeric foam by plasma treatment for food packaging applications. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	5
4	Interfacial water morphology in hydrated melanin. <i>Soft Matter</i> , 2021, 17, 7940-7952.	2.7	6
5	Melanin system composition analyzed by XPS depth profiling. <i>Surfaces and Interfaces</i> , 2021, 24, 101053.	3.0	21
6	Controlled and permanent induced Fermi shifts and upwards band bending in ZnO nanorods by surface stripping with argon bombardment. <i>Materials Letters</i> , 2021, 301, 130288.	2.6	2
7	Colloidal Manganese-Doped ZnS Nanoplatelets and Their Optical Properties. <i>Chemistry of Materials</i> , 2021, 33, 275-284.	6.7	36
8	An insight into the air stability of the benchmark polymer:fullerene photovoltaic films and devices: A comparative study. <i>Organic Electronics</i> , 2020, 76, 105456.	2.6	15
9	Novel benzothiazole half-squaraines: model chromophores to study dye-TiO <sub>2</sub> interactions in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22191-22205.	10.3	4
10	Roll-to-roll slot-die coated $\text{I}^{\text{II}}\text{N}$ perovskite solar cells using acetonitrile based single step perovskite solvent system. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3340-3351.	4.9	53
11	Full Thermoelectric Characterization of Stoichiometric Electrodeposited Thin Film Tin Selenide (SnSe). <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 28232-28238.	8.0	17
12	Nitrogen/Carbon-Coated Zero-Valent Copper as Highly Efficient Co-catalysts for TiO <sub>2</sub> Applied in Photocatalytic and Photoelectrocatalytic Hydrogen Production. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 30365-30380.	8.0	35
13	Enhanced Electrical Conductivity and Seebeck Coefficient in PEDOT:PSS via a Two-Step Ionic liquid and NaBH <sub>4</sub> Treatment for Organic Thermoelectrics. <i>Polymers</i> , 2020, 12, 559.	4.5	26
14	Inducing upwards band bending by surface stripping ZnO nanowires with argon bombardment. <i>Nanotechnology</i> , 2020, 31, 505705.	2.6	4
15	Desorption of carboxylates and phosphonates from galvanized steel: Towards greener lubricants. <i>Surface and Interface Analysis</i> , 2019, 51, 934-942.	1.8	2
16	Mass Manufactured Glass Substrates Incorporating Prefabricated Electron Transport Layers for Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801773.	3.7	5
17	Influences of Non-fullerene Acceptor Fluorination on Three-Dimensional Morphology and Photovoltaic Properties of Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 26194-26203.	8.0	57
18	3D Printed SnSe Thermoelectric Generators with High Figure of Merit. <i>Advanced Energy Materials</i> , 2019, 9, 1900201.	19.5	71

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19	Sources of Pb(0) artefacts during XPS analysis of lead halide perovskites. <i>Materials Letters</i> , 2019, 251, 98-101.	2.6	89
20	Voltammetric Detection of Caffeine in Beverages at Nafion/Graphite Nanoplatelets Layer-by-Layer Films. <i>Nanomaterials</i> , 2019, 9, 221.	4.1	15
21	The effects of vacuum annealing on the conduction characteristics of ZnO nanorods. <i>Materials Letters</i> , 2019, 243, 144-147.	2.6	13
22	Acetonitrile based single step slot-die compatible perovskite ink for flexible photovoltaics. <i>RSC Advances</i> , 2019, 9, 37415-37423.	3.6	34
23	Earth abundant, non-toxic, 3D printed Cu <sub>2</sub> S with high thermoelectric figure of merit. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25586-25592.	10.3	15
24	Investigation into the effects of surface stripping ZnO nanosheets. <i>Nanotechnology</i> , 2018, 29, 165701.	2.6	3
25	Study of the tribological properties and ageing of alkyphosphonic acid films on galvanized steel. <i>Tribology International</i> , 2018, 119, 337-344.	5.9	9
26	The role of fullerenes in the environmental stability of polymer:fullerene solar cells. <i>Energy and Environmental Science</i> , 2018, 11, 417-428.	30.8	117
27	Reduced graphene oxide wrapped hierarchical TiO <sub>2</sub> nanorod composites for improved charge collection efficiency and carrier lifetime in dye sensitized solar cells. <i>Applied Surface Science</i> , 2018, 428, 439-447.	6.1	45
28	Composition analysis of Ta <sub>3</sub> N <sub>5</sub> /W <sub>18</sub> O <sub>49</sub> nanocomposite through XPS. <i>Surface Science Spectra</i> , 2018, 25, 024002.	1.3	1
29	Temperature-light-dependent JV and TPV analysis of pure sulfide based Cu <sub>2</sub> ZnSnS <sub>4</sub> solar cells. , 2018, , .		0
30	Screen printed carbon CsPbBr <sub>3</sub> solar cells with high open-circuit photovoltage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18677-18686.	10.3	46
31	A perspective on using experiment and theory to identify design principles in dye-sensitized solar cells. <i>Science and Technology of Advanced Materials</i> , 2018, 19, 599-612.	6.1	3
32	Engineering of a Mo/Si <sub>2</sub> N <sub>2</sub> Diffusion Barrier to Reduce the Formation of MoS <sub>2</sub> in Cu <sub>2</sub> ZnSnS <sub>4</sub> Thin Film Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 2749-2757.	5.1	17
33	Thin Film Tin Selenide (SnSe) Thermoelectric Generators Exhibiting Ultralow Thermal Conductivity. <i>Advanced Materials</i> , 2018, 30, e1801357.	21.0	126
34	On-Demand Electrical Switching of Antibody-Antigen Binding on Surfaces. <i>ACS Applied Bio Materials</i> , 2018, 1, 738-747.	4.6	5
35	Correlating Three-dimensional Morphology With Function in PBDBT-Non Fullerene Organic Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1800114.	5.8	49
36	Digital imaging to simultaneously study device lifetimes of multiple dye-sensitized solar cells. <i>Sustainable Energy and Fuels</i> , 2017, 1, 362-370.	4.9	7

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37	Studies of inherent lubricity coatings for low surface roughness galvanised steel for automotive applications. <i>Lubrication Science</i> , 2017, 29, 317-333.	2.1	8
38	Active removal of waste dye pollutants using Ta3N5/W18O49 nanocomposite fibres. <i>Scientific Reports</i> , 2017, 7, 4090.	3.3	29
39	Impact of Aggregation on the Photochemistry of Fullerene Films: Correlating Stability to Triplet Exciton Kinetics. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 22739-22747.	8.0	27
40	Synergic effect of Bi, Sb and Te for the increased stability of bulk alloying anodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23198-23208.	10.3	29
41	High throughput fabrication of mesoporous carbon perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18643-18650.	10.3	65
42	Use of gas cluster ion source depth profiling to study the oxidation of fullerene thin films by XPS. <i>Organic Electronics</i> , 2017, 49, 85-93.	2.6	5
43	Surface-initiated growth of copper using isonicotinic acid-functionalized aluminum oxide surfaces. <i>Journal of Coatings Technology Research</i> , 2017, 14, 195-205.	2.5	5
44	The effect of additional sulfur on solution-processed pure sulfide Cu2ZnSnS4 solar cell absorber layers. <i>MRS Advances</i> , 2016, 1, 2815-2820.	0.9	4
45	Porous carbons from inverse vulcanised polymers. <i>Microporous and Mesoporous Materials</i> , 2016, 232, 189-195.	4.4	34
46	Copper-complexed isonicotinic acid functionalized aluminum oxide nanoparticles. <i>Main Group Chemistry</i> , 2015, 15, 1-15.	0.8	6
47	Impedance Characteristics of Transparent GNP-Pt Ink Catalysts for Flexible Dye Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2015, 162, H564-H569.	2.9	6
48	Bi-phasic titanium dioxide nanoparticles doped with nitrogen and neodymium for enhanced photocatalysis. <i>Nanoscale</i> , 2015, 7, 17735-17744.	5.6	11
49	Anatase/rutile bi-phasic titanium dioxide nanoparticles for photocatalytic applications enhanced by nitrogen doping and platinum nano-islands. <i>Journal of Colloid and Interface Science</i> , 2015, 460, 29-35.	9.4	26
50	A Substrate-Independent Approach for the Surface Immobilization of Oligonucleotides using Aldehyde Functionalized Surfaces. <i>Chemical Vapor Deposition</i> , 2009, 15, 122-127.	1.3	2
51	Mimicking a Stenocara Beetle's Back for Microcondensation Using Plasmachemical Patterned Superhydrophobic/Superhydrophilic Surfaces. <i>Langmuir</i> , 2007, 23, 689-693.	3.5	363
52	A Substrate-Independent Approach for Cyclodextrin Functionalized Surfaces. <i>Journal of Physical Chemistry B</i> , 2006, 110, 17161-17166.	2.6	22
53	Rewritable DNA Microarrays. <i>Journal of the American Chemical Society</i> , 2006, 128, 2280-2285.	13.7	54
54	Modification of TiO2/CH3NH3PbI3 interface with KCl, KI, or KBr in planar perovskite solar cells. , 0, , .		0

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55	Surface Engineering Dye-sensitized Solar Cells. , 0, , .		0