

# James D Mcgettrick

## List of Publications by Year in descending order

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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	Mimicking a Stenocara Beetle's Back for Microcondensation Using Plasmachemical Patterned Superhydrophobic~Superhydrophilic Surfaces. Langmuir, 2007, 23, 689-693.	3.5	363
2	Thin Film Tin Selenide (SnSe) Thermoelectric Generators Exhibiting Ultralow Thermal Conductivity. Advanced Materials, 2018, 30, e1801357.	21.0	126
3	The role of fullerenes in the environmental stability of polymer:fullerene solar cells. Energy and Environmental Science, 2018, 11, 417-428.	30.8	117
4	Sources of Pb(0) artefacts during XPS analysis of lead halide perovskites. Materials Letters, 2019, 251, 98-101.	2.6	89
5	3D Printed SnSe Thermoelectric Generators with High Figure of Merit. Advanced Energy Materials, 2019, 9, 1900201.	19.5	71
6	High throughput fabrication of mesoporous carbon perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 18643-18650.	10.3	65
7	Influences of Non-fullerene Acceptor Fluorination on Three-Dimensional Morphology and Photovoltaic Properties of Organic Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 26194-26203.	8.0	57
8	Rewritable DNA Microarrays. Journal of the American Chemical Society, 2006, 128, 2280-2285.	13.7	54
9	Roll-to-roll slot-die coated Pâ€“â€“N perovskite solar cells using acetonitrile based single step perovskite solvent system. Sustainable Energy and Fuels, 2020, 4, 3340-3351.	4.9	53
10	Correlating Threeâ€“dimensional Morphology With Function in PBDBâ€“ITâ€“M Nonâ€“Fullerene Organic Solar Cells. Solar Rrl, 2018, 2, 1800114.	5.8	49
11	Screen printed carbon CsPbBr<sub>3</sub> solar cells with high open-circuit photovoltage. Journal of Materials Chemistry A, 2018, 6, 18677-18686.	10.3	46
12	Reduced graphene oxide wrapped hierarchical TiO2 nanorod composites for improved charge collection efficiency and carrier lifetime in dye sensitized solar cells. Applied Surface Science, 2018, 428, 439-447.	6.1	45
13	Colloidal Manganese-Doped ZnS Nanoplatelets and Their Optical Properties. Chemistry of Materials, 2021, 33, 275-284.	6.7	36
14	Nitrogen/Carbon-Coated Zero-Valent Copper as Highly Efficient Co-catalysts for TiO<sub>2</sub> Applied in Photocatalytic and Photoelectrocatalytic Hydrogen Production. ACS Applied Materials & Interfaces, 2020, 12, 30365-30380.	8.0	35
15	Porous carbons from inverse vulcanised polymers. Microporous and Mesoporous Materials, 2016, 232, 189-195.	4.4	34
16	Acetonitrile based single step slot-die compatible perovskite ink for flexible photovoltaics. RSC Advances, 2019, 9, 37415-37423.	3.6	34
17	Active removal of waste dye pollutants using Ta3N5/W18O49 nanocomposite fibres. Scientific Reports, 2017, 7, 4090.	3.3	29
18	Synergic effect of Bi, Sb and Te for the increased stability of bulk alloying anodes for sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 23198-23208.	10.3	29

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19	Impact of Aggregation on the Photochemistry of Fullerene Films: Correlating Stability to Triplet Exciton Kinetics. ACS Applied Materials & Interfaces, 2017, 9, 22739-22747.	8.0	27
20	Anatase/rutile bi-phasic titanium dioxide nanoparticles for photocatalytic applications enhanced by nitrogen doping and platinum nano-islands. Journal of Colloid and Interface Science, 2015, 460, 29-35.	9.4	26
21	Enhanced Electrical Conductivity and Seebeck Coefficient in PEDOT:PSS via a Two-Step Ionic liquid and NaBH <sub>4</sub> Treatment for Organic Thermoelectrics. Polymers, 2020, 12, 559.	4.5	26
22	A Substrate-Independent Approach for Cyclodextrin Functionalized Surfaces. Journal of Physical Chemistry B, 2006, 110, 17161-17166.	2.6	22
23	Melanin system composition analyzed by XPS depth profiling. Surfaces and Interfaces, 2021, 24, 101053.	3.0	21
24	Engineering of a Mo/Si <sub>x</sub> N <sub>y</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. ACS Applied Energy Materials, 2018, 1, 2749-2757.	5.1	17
25	Full Thermoelectric Characterization of Stoichiometric Electrodeposited Thin Film Tin Selenide (SnSe). ACS Applied Materials & Interfaces, 2020, 12, 28232-28238.	8.0	17
26	Voltammetric Detection of Caffeine in Beverages at Nafion/Graphite Nanoplatelets Layer-by-Layer Films. Nanomaterials, 2019, 9, 221.	4.1	15
27	Earth abundant, non-toxic, 3D printed Cu <sub>2</sub> S with high thermoelectric figure of merit. Journal of Materials Chemistry A, 2019, 7, 25586-25592.	10.3	15
28	An insight into the air stability of the benchmark polymer:fullerene photovoltaic films and devices: A comparative study. Organic Electronics, 2020, 76, 105456.	2.6	15
29	The effects of vacuum annealing on the conduction characteristics of ZnO nanorods. Materials Letters, 2019, 243, 144-147.	2.6	13
30	Bi-phasic titanium dioxide nanoparticles doped with nitrogen and neodymium for enhanced photocatalysis. Nanoscale, 2015, 7, 17735-17744.	5.6	11
31	Photocatalytic H <sub>2</sub> production and degradation of aqueous 2-chlorophenol over B/N-graphene-coated Cu <sub>0</sub> /TiO <sub>2</sub> : A DFT, experimental and mechanistic investigation. Journal of Environmental Management, 2022, 311, 114822.	7.8	11
32	Study of the tribological properties and ageing of alkyphosphonic acid films on galvanized steel. Tribology International, 2018, 119, 337-344.	5.9	9
33	Studies of inherent lubricity coatings for low surface roughness galvanised steel for automotive applications. Lubrication Science, 2017, 29, 317-333.	2.1	8
34	Digital imaging to simultaneously study device lifetimes of multiple dye-sensitized solar cells. Sustainable Energy and Fuels, 2017, 1, 362-370.	4.9	7
35	Copper-complexed isonicotinic acid functionalized aluminum oxide nanoparticles. Main Group Chemistry, 2015, 15, 1-15.	0.8	6
36	Impedance Characteristics of Transparent GNP-Pt Ink Catalysts for Flexible Dye Sensitized Solar Cells. Journal of the Electrochemical Society, 2015, 162, H564-H569.	2.9	6

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37	Interfacial water morphology in hydrated melanin. <i>Soft Matter</i> , 2021, 17, 7940-7952.	2.7	6
38	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
39	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
40	On-Demand Electrical Switching of Antibody–Antigen Binding on Surfaces. <i>ACS Applied Bio Materials</i> , 2018, 1, 738-747.	4.6	5
41	Mass Manufactured Glass Substrates Incorporating Prefabricated Electron Transport Layers for Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801773.	3.7	5
42	Improvement in liquid absorption of $\text{TiO}_2$ polymeric foam by plasma treatment for food packaging applications. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	5
43	The effect of additional sulfur on solution-processed pure sulfide $\text{Cu}_2\text{ZnSnS}_4$ solar cell absorber layers. <i>MRS Advances</i> , 2016, 1, 2815-2820.	0.9	4
44	Novel benzothiazole half-squaraines: model chromophores to study dye– $\text{TiO}_2$ interactions in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22191-22205.	10.3	4
45	Inducing upwards band bending by surface stripping ZnO nanowires with argon bombardment. <i>Nanotechnology</i> , 2020, 31, 505705.	2.6	4
46	Investigation into the effects of surface stripping ZnO nanosheets. <i>Nanotechnology</i> , 2018, 29, 165701.	2.6	3
47	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
48	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
49	Desorption of carboxylates and phosphonates from galvanized steel: Towards greener lubricants. <i>Surface and Interface Analysis</i> , 2019, 51, 934-942.	1.8	2
50	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
51	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
52	Temperature-light-dependent JV and TPV analysis of pure sulfide based $\text{Cu}_2\text{ZnSnS}_4$ solar cells. , 2018, , .		0
53	Modification of $\text{TiO}_2/\text{CH}_3\text{NH}_3\text{PbI}_3$ interface with KCl, KI, or KBr in planar perovskite solar cells. , 0, , .		0
54	Surface Engineering Dye-sensitized Solar Cells. , 0, , .		0

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55	Glassy carbon manufacture using rapid photonic curing. Journal of Materials Science, 2022, 57, 299-310.	3.7	0