

# Greg McMahon

## List of Publications by Year in descending order

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31  
papers

2,918  
citations

361413

20  
h-index

477307

29  
g-index

31  
all docs

31  
docs citations

31  
times ranked

4301  
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlative NanoSIMS and electron microscopy methods for understanding deuterium distributions after fatigue testing of 304/304L stainless steel in deuterated water. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 20042-20052.	7.1	4
2	Microdistribution and quantification of the boron neutron capture therapy drug BPA in primary cell cultures of human glioblastoma tumour by NanoSIMS. <i>Analyst, The</i> , 2019, 144, 6214-6224.	3.5	11
3	On the role of precipitates in hydrogen trapping and hydrogen embrittlement of a nickel-based superalloy. <i>Corrosion Science</i> , 2019, 146, 58-69.	6.6	63
4	High resolution NanoSIMS imaging of deuterium distributions in 316 stainless steel specimens after fatigue testing in high pressure deuterium environment. <i>Npj Materials Degradation</i> , 2018, 2, .	5.8	10
5	Nanoscale petrographic and geochemical insights on the origin of the <i>P</i> -alaeoproterozoic stromatolitic phosphorites from <i>A</i> -ravalli <i>S</i> -upergroup, <i>I</i> -ndia. <i>Geobiology</i> , 2016, 14, 3-32.	2.4	27
6	Promotion of the halide effect in the formation of shaped metal nanocrystals via a hybrid cationic, polymeric stabilizer: Octahedra, cubes, and anisotropic growth. <i>Surface Science</i> , 2016, 648, 307-312.	1.9	13
7	Enabling unassisted solar water splitting by iron oxide and silicon. <i>Nature Communications</i> , 2015, 6, 7447.	12.8	429
8	Forming Buried Junctions to Enhance the Photovoltage Generated by Cuprous Oxide in Aqueous Solutions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13493-13497.	13.8	160
9	Terminal Proterozoic cyanobacterial blooms and phosphogenesis documented by the Doushantuo granular phosphorites I: In situ micro-analysis of textures and composition. <i>Precambrian Research</i> , 2013, 235, 20-35.	2.7	61
10	Hematite-Based Water Splitting with Low Turn-On Voltages. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12692-12695.	13.8	401
11	Ultrasensitive Chemical Detection Using a Nanocoax Sensor. <i>ACS Nano</i> , 2012, 6, 3171-3178.	14.6	30
12	Growth of p-Type Hematite by Atomic Layer Deposition and Its Utilization for Improved Solar Water Splitting. <i>Journal of the American Chemical Society</i> , 2012, 134, 5508-5511.	13.7	368
13	Efficient nanocoax-based solar cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010, 4, 181-183.	2.4	87
14	Direct-write, focused ion beam-deposited, 7 K superconducting <i>C</i> - <i>Ga</i> - <i>O</i> nanowire. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	12
15	In-Situ Electrical Measurements of Vertically Aligned Nanostructures. <i>Microscopy and Microanalysis</i> , 2009, 15, 708-709.	0.4	0
16	Application of Dual Beam FIB to the Metrology of Nanostructured Photovoltaic Devices. <i>Microscopy and Microanalysis</i> , 2009, 15, 1392-1393.	0.4	0
17	Quantitative Imaging of Nitrogen Fixation by Individual Bacteria Within Animal Cells. <i>Science</i> , 2007, 317, 1563-1566.	12.6	266
18	High-resolution quantitative imaging of mammalian and bacterial cells using stable isotope mass spectrometry. <i>Journal of Biology</i> , 2006, 5, 20.	2.7	308

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19	Quantitative imaging of cells with multi-isotope imaging mass spectrometry (MIMS) Nanoautography with stable isotope tracers. Applied Surface Science, 2006, 252, 6895-6906.	6.1	63
20	CN <sup>+</sup> secondary ions form by recombination as demonstrated using multi-isotope mass spectrometry of <sup>13</sup> C- and <sup>15</sup> N-labeled polyglycine. Journal of the American Society for Mass Spectrometry, 2006, 17, 1181-1187.	2.8	34
21	ION-MICROPROBE ANALYSIS OF FeTi OXIDES: OPTIMIZATION FOR THE DETERMINATION OF INVISIBLE GOLD. Economic Geology, 2002, 97, 159-164.	3.8	3
22	CHEMICAL SPECIATION OF GOLD IN ARSENOPYRITE. Canadian Mineralogist, 2000, 38, 1265-1281.	1.0	124
23	COMPARATIVE ANALYSIS OF SULFIDES FOR GOLD USING SXRF AND SIMS. Canadian Mineralogist, 2000, 38, 1-10.	1.0	15
24	Interdependence of character of grain boundaries, intergranular segregation of boron and grain boundary liquation in simulated weld heat-affected zone in inconel 718. Scripta Materialia, 1999, 40, 383-388.	5.2	41
25	Colloidal Synthesis and Electroluminescence Properties of Nanoporous MnII ZnS Films. Journal of Physical Chemistry B, 1999, 103, 7839-7845.	2.6	71
26	Grain boundary segregation of boron in INCONEL 718. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1998, 29, 1947-1954.	2.2	58
27	A multidisciplinary study of invisible gold in arsenopyrite from four mesothermal gold deposits in Siberia, Russian Federation. Economic Geology, 1998, 93, 463-487.	3.8	122
28	Ultramicrotomy of nanocrystalline materials. Microscopy Research and Technique, 1995, 31, 267-274.	2.2	19
29	<sup>67</sup> Zn-Mössbauer study of nanostructured ZnO. Hyperfine Interactions, 1995, 95, 247-255.	0.5	4
30	On the growth mechanism of silicon carbide whiskers. Journal of Materials Science, 1991, 26, 5655-5663.	3.7	46
31	Structural transitions in electroplated Ni-P alloys. Journal of Materials Science Letters, 1989, 8, 865-868.	0.5	68