

M J Gordon

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7240148/m-j-gordon-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71
papers

1,255
citations

17
h-index

33
g-index

74
ext. papers

1,750
ext. citations

5.9
avg. IF

4.94
L-index

#	Paper	IF	Citations
71	Size effects in mechanical deformation and fracture of cantilevered silicon nanowires. <i>Nano Letters</i> , 2009 , 9, 525-9	11.5	184
70	Catalytic molten metals for the direct conversion of methane to hydrogen and separable carbon. <i>Science</i> , 2017 , 358, 917-921	33.3	155
69	Statistics of electrical breakdown field in HfO ₂ and SiO ₂ films from millimeter to nanometer length scales. <i>Applied Physics Letters</i> , 2007 , 91, 242905	3.4	86
68	Comparison of size-dependent characteristics of blue and green InGaN microLEDs down to 1 μ m in diameter. <i>Applied Physics Letters</i> , 2020 , 116, 071102	3.4	59
67	Dry reforming of methane catalysed by molten metal alloys. <i>Nature Catalysis</i> , 2020 , 3, 83-89	36.5	57
66	Methane Pyrolysis with a Molten CuBi Alloy Catalyst. <i>ACS Catalysis</i> , 2019 , 9, 8337-8345	13.1	46
65	Catalytic methane pyrolysis in molten MnCl ₂ -KCl. <i>Applied Catalysis B: Environmental</i> , 2019 , 254, 659-666	21.8	42
64	Oxygen evolution on Fe-doped NiO electrocatalysts deposited via microplasma. <i>Nanoscale</i> , 2017 , 9, 15070-15082	7.7	42
63	Revealing the importance of light extraction efficiency in InGaN/GaN microLEDs via chemical treatment and dielectric passivation. <i>Applied Physics Letters</i> , 2020 , 116, 251104	3.4	38
62	Solid carbon production and recovery from high temperature methane pyrolysis in bubble columns containing molten metals and molten salts. <i>Carbon</i> , 2019 , 151, 181-191	10.4	35
61	Demonstration of ultra-small (0.2%) for mini-displays. <i>Applied Physics Express</i> , 2021 , 14, 011004	2.4	35
60	Moth eye-inspired anti-reflective surfaces for improved IR optical systems & visible LEDs fabricated with colloidal lithography and etching. <i>Bioinspiration and Biomimetics</i> , 2018 , 13, 041001	2.6	30
59	Simple colloidal lithography method to fabricate large-area moth-eye antireflective structures on Si, Ge, and GaAs for IR applications. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014 , 32, 051213	1.3	23
58	Optical measures of thermally induced chain ordering and oxidative damage in polythiophene films. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 1950-7	3.4	21
57	Importance of diffuse scattering phenomena in moth-eye arrays for broadband infrared applications. <i>Optics Letters</i> , 2014 , 39, 13-6	3	21
56	Nanoscale Optical Microscopy and Spectroscopy Using Near-Field Probes. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2018 , 9, 365-387	8.9	20
55	Color-tunable . <i>Applied Physics Letters</i> , 2020 , 117, 061105	3.4	19

54	Catalytic Methane Pyrolysis in Molten Alkali Chloride Salts Containing Iron. <i>ACS Catalysis</i> , 2020 , 10, 7032-7042	13.1	17
53	Influence of Blending Ratio and Polymer Matrix on the Lasing Properties of Perylene diimide Dyes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 24896-24906	3.8	17
52	Near-field artifacts in tip-enhanced Raman spectroscopy. <i>Applied Physics Letters</i> , 2012 , 100, 213111	3.4	16
51	Microplasma-based synthesis of vertically aligned metal oxide nanostructures. <i>Nanotechnology</i> , 2012 , 23, 425603	3.4	16
50	Atmospheric Pressure Plasma Deposition of Hydrophilic/Phobic Patterns and Thin Film Laminates on Any Surface. <i>Langmuir</i> , 2019 , 35, 9677-9683	4	15
49	Wavelength-specific forward scattering of light by Bragg-reflective iridocytes in giant clams. <i>Journal of the Royal Society Interface</i> , 2016 , 13,	4.1	15
48	Exchange bias and spin glass behavior in biphasic NiFe ₂ O ₄ /NiO thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 419, 29-36	2.8	14
47	Bio-inspired, sub-wavelength surface structures for ultra-broadband, omni-directional anti-reflection in the mid and far IR. <i>Optics Express</i> , 2014 , 22, 12808-16	3.3	14
46	Biomimetic nanostructures in ZnS and ZnSe provide broadband anti-reflectivity. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 114007	1.7	12
45	Enhanced light extraction from free-standing InGaN/GaN light emitters using bio-inspired backside surface structuring. <i>Optics Express</i> , 2017 , 25, 15778-15785	3.3	12
44	Partial Hydrogenation of C ₂ H ₂ on Ag-Doped Pt Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 12982-12988	3.8	12
43	Strain relaxation of InGaN/GaN multi-quantum well light emitters via nanopatterning. <i>Optics Express</i> , 2019 , 27, 30081-30089	3.3	12
42	Molten salt chemical looping for reactive separation of HBr in a halogen-based natural gas conversion process. <i>Chemical Engineering Science</i> , 2017 , 160, 245-253	4.4	11
41	Catalytic Methane Pyrolysis with Liquid and Vapor Phase Tellurium. <i>ACS Catalysis</i> , 2020 , 10, 8223-8230	13.1	11
40	Enhancing near-infrared light absorption in PtSi thin films for Schottky barrier IR detectors using moth-eye surface structures. <i>Optics Letters</i> , 2015 , 40, 1512-5	3	10
39	Doped rhodium sulfide and thiospinels hydrogen evolution and oxidation electrocatalysts in strong acid electrolytes. <i>Journal of Applied Electrochemistry</i> , 2016 , 46, 497-503	2.6	10
38	Fabrication and optical behavior of graded-index, moth-eye antireflective structures in CdTe. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2017 , 35, 011201	1.3	9
37	Spray deposition of nanostructured metal films using hydrodynamically stabilized, high pressure microplasmas. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2013 , 31, 061312	2.9	9

36	Microplasma-Based Growth of Biphasic NiFe ₂ O ₄ /NiO Nanogranular Films for Exchange Bias Applications. <i>Chemistry of Materials</i> , 2014 , 26, 6026-6032	9.6	8
35	Gas-surface chemical reactions at high collision energies?. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1927-30	16.4	8
34	CO ₂ -Free Hydrogen Production by Catalytic Pyrolysis of Hydrocarbon Feedstocks in Molten NiBi. <i>Energy & Fuels</i> , 2020 , 34, 16073-16080	4.1	8
33	Halogen-Mediated Oxidative Dehydrogenation of Propane Using Iodine or Molten Lithium Iodide. <i>Catalysis Letters</i> , 2016 , 146, 744-754	2.8	7
32	Influence of Step-Edge vs Terrace Sites on Temperature-Dependent C ₂ H ₂ Hydrogenation with Ag-Doped Pt Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 23472-23476	3.8	7
31	Microplasmas for direct, substrate-independent deposition of nanostructured metal oxides. <i>Applied Physics Letters</i> , 2016 , 109, 033110	3.4	6
30	Effect of silane coupling agent chemistry on electrical breakdown across hybrid organic-inorganic insulating films. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11932-9	9.5	5
29	Testing predictions from density functional theory at finite temperatures: π -like ground states in Co-Pt. <i>Physical Review B</i> , 2015 , 92,	3.3	5
28	First-principles investigation of competing magnetic interactions in (Mn,Fe)Ru ₂ Sn Heusler solid solutions. <i>Physical Review B</i> , 2017 , 96,	3.3	4
27	Bromine and iodine for selective partial oxidation of propane and methane. <i>Applied Catalysis A: General</i> , 2019 , 580, 102-110	5.1	4
26	Reflection-mode, confocal, tip-enhanced Raman spectroscopy system for scanning chemical microscopy of surfaces. <i>Review of Scientific Instruments</i> , 2012 , 83, 093706	1.7	4
25	Subdiffraction-limited chemical imaging of patterned phthalocyanine films using tip-enhanced near-field optical microscopy. <i>Journal of Raman Spectroscopy</i> , 2016 , 47, 1287-1292	2.3	3
24	Demonstration of ultra-small 5 μ m ² 607 nm InGaN amber micro-light-emitting diodes with an external quantum efficiency over 2%. <i>Applied Physics Letters</i> , 2022 , 120, 041102	3.4	3
23	Fabrication and chemical lift-off of sub-micron scale III-nitride LED structures. <i>Optics Express</i> , 2020 , 28, 35038-35046	3.3	3
22	Precise localization of DBD plasma streamers using topographically patterned insulators for maskless structural and chemical modification of surfaces. <i>Applied Physics Letters</i> , 2021 , 119, 211601	3.4	3
21	Methane pyrolysis in low-cost, alkali-halide molten salts at high temperatures. <i>Sustainable Energy and Fuels</i> ,	5.8	3
20	Quasiodordered, subwavelength TiO ₂ hole arrays with tunable, omnidirectional color response. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020 , 38, 053403	2.9	3
19	Tip-enhanced near-field optical microscope with side-on and ATR-mode sample excitation for super-resolution Raman imaging of surfaces. <i>Journal of Applied Physics</i> , 2016 , 119, 223103	2.5	3

18	Halogen-Mediated Partial Combustion of Methane in Molten Salts To Produce CO ₂ -Free Power and Solid Carbon. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 15673-15681	8.3	3
17	Chlorine Production by HCl Oxidation in a Molten Chloride Salt Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 7795-7801	3.9	3
16	Hierarchical colloid-based lithography for wettability tuning of semiconductor surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 053209	2.9	3
15	High-temperature heterogeneous catalysis in platinum nanoparticle [molten salt suspensions. <i>Catalysis Science and Technology</i> , 2020 , 10, 625-629	5.5	2
14	Imaging Intermolecular Exciton Coupling in Metal-Free Phthalocyanine Nanofilms Using Tip-Enhanced Near-Field Optical Microscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14796-14804	3.8	2
13	Color-changing refractive index sensor based on Fano-resonant filtering of optical modes in a porous dielectric Fabry-Pérot microcavity. <i>Optics Express</i> , 2020 , 28, 28226-28233	3.3	2
12	Lift-off of semipolar blue and green III-nitride LEDs grown on free-standing GaN. <i>Applied Physics Letters</i> , 2020 , 117, 021104	3.4	2
11	Polymethylmethacrylate wettability change spatially correlates with self-organized streamer microdischarge patterns in dielectric barrier discharge plasmas. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 063001	2.9	2
10	Red InGaN micro-light-emitting diodes (>620 nm) with a peak external quantum efficiency of 4.5% using an epitaxial tunnel junction contact. <i>Applied Physics Letters</i> , 2022 , 120, 121102	3.4	2
9	Electrochemistry as a surrogate for protein phosphorylation: voltage-controlled assembly of reflectin A1. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20200774	4.1	1
8	Molecular Oxygen Activation on Suspended Doped Cerium(IV) Oxide Particles in Molten Chloride Salts. <i>Catalysis Letters</i> , 2020 , 150, 273-280	2.8	1
7	Initial Steps in CH ₄ Pyrolysis on Cu and Ni. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 18665-18672	3.8	1
6	Influence of hydrocarbon feed additives on the high-temperature pyrolysis of methane in molten salt bubble column reactors. <i>Reaction Chemistry and Engineering</i> ,	4.9	1
5	Reversible electrochemical triggering and optical interrogation of polylysine helix formation. <i>Bioelectrochemistry</i> , 2021 , 144, 108007	5.6	0
4	Computational design and optimization of nanostructured AlN deep-UV grating reflectors.. <i>Optics Express</i> , 2022 , 30, 12120-12130	3.3	0
3	Optical emission spectroscopy and Langmuir probe studies of an intermediate pressure, supersonic microplasma jet deposition source. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022 , 40, 013002	2.9	
2	Direct detection of gap mode plasmon resonances using attenuated total reflection-based tip-enhanced near-field optical microscopy. <i>Journal of Optics (United Kingdom)</i> , 2020 , 22, 095001	1.7	
1	Simple and Scalable Chemical Surface Patterning via Direct Deposition from Immobilized Plasma Filaments in a Dielectric Barrier Discharge.. <i>Advanced Science</i> , 2022 , e2200237	13.6	

