

# Adam F Chrimes

## List of Publications by Year in descending order

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34  
papers

3,559  
citations

257450

24  
h-index

434195

31  
g-index

35  
all docs

35  
docs citations

35  
times ranked

6563  
citing authors

#	ARTICLE	IF	CITATIONS
1	Physisorption-Based Charge Transfer in Two-Dimensional SnS <sub>2</sub> for Selective and Reversible NO <sub>2</sub> Gas Sensing. ACS Nano, 2015, 9, 10313-10323.	14.6	624
2	Electrochemical Control of Photoluminescence in Two-Dimensional MoS <sub>2</sub> Nanoflakes. ACS Nano, 2013, 7, 10083-10093.	14.6	282
3	Ion-Driven Photoluminescence Modulation of Quasi-Two-Dimensional MoS <sub>2</sub> Nanoflakes for Applications in Biological Systems. Nano Letters, 2014, 14, 857-863.	9.1	245
4	A human pilot trial of ingestible electronic capsules capable of sensing different gases in the gut. Nature Electronics, 2018, 1, 79-87.	26.0	240
5	Electronic Tuning of 2D MoS <sub>2</sub> through Surface Functionalization. Advanced Materials, 2015, 27, 6225-6229.	21.0	194
6	Microfluidics and Raman microscopy: current applications and future challenges. Chemical Society Reviews, 2013, 42, 5880.	38.1	177
7	Plasmon Resonances of Highly Doped Two-Dimensional MoS <sub>2</sub> . Nano Letters, 2015, 15, 883-890.	9.1	167
8	Electrospun Granular Hollow SnO <sub>2</sub> Nanofibers Hydrogen Gas Sensors Operating at Low Temperatures. Journal of Physical Chemistry C, 2014, 118, 3129-3139.	3.1	166
9	High-Performance Field Effect Transistors Using Electronic Inks of 2D Molybdenum Oxide Nanoflakes. Advanced Functional Materials, 2016, 26, 91-100.	14.9	164
10	Ionic imbalance induced self-propulsion of liquid metals. Nature Communications, 2016, 7, 12402.	12.8	158
11	Liquid Metal/Metal Oxide Frameworks with Incorporated Ga <sub>2</sub> O <sub>3</sub> for Photocatalysis. ACS Applied Materials & Interfaces, 2015, 7, 1943-1948.	8.0	138
12	Exfoliation Solvent Dependent Plasmon Resonances in Two-Dimensional Sub-Stoichiometric Molybdenum Oxide Nanoflakes. ACS Applied Materials & Interfaces, 2016, 8, 3482-3493.	8.0	111
13	Degenerately Hydrogen Doped Molybdenum Oxide Nanodisks for Ultrasensitive Plasmonic Biosensing. Advanced Functional Materials, 2018, 28, 1706006.	14.9	105
14	A Gallium-Based Magnetocaloric Liquid Metal Ferrofluid. Nano Letters, 2017, 17, 7831-7838.	9.1	101
15	Acoustically-Driven Trion and Exciton Modulation in Piezoelectric Two-Dimensional MoS <sub>2</sub> . Nano Letters, 2016, 16, 849-855.	9.1	91
16	Quasi physisorptive two dimensional tungsten oxide nanosheets with extraordinary sensitivity and selectivity to NO <sub>2</sub> . Nanoscale, 2017, 9, 19162-19175.	5.6	81
17	Substoichiometric two-dimensional molybdenum oxide flakes: a plasmonic gas sensing platform. Nanoscale, 2014, 6, 12780-12791.	5.6	77
18	Active Control of Silver Nanoparticles Spacing Using Dielectrophoresis for Surface-Enhanced Raman Scattering. Analytical Chemistry, 2012, 84, 4029-4035.	6.5	61

#	ARTICLE	IF	CITATIONS
19	Intercalated 2D MoS <sub>2</sub> Utilizing a Simulated Sun Assisted Process: Reducing the HER Overpotential. Journal of Physical Chemistry C, 2016, 120, 2447-2455.	3.1	61
20	In situ SERS probing of nano-silver coated individual yeast cells. Biosensors and Bioelectronics, 2013, 49, 536-541.	10.1	52
21	Dielectrophoresis-Raman spectroscopy system for analysing suspended nanoparticles. Lab on A Chip, 2011, 11, 921.	6.0	51
22	The safety and sensitivity of a telemetric capsule to monitor gastrointestinal hydrogen production in vivo in healthy subjects: a pilot trial comparison to concurrent breath analysis. Alimentary Pharmacology and Therapeutics, 2018, 48, 646-654.	3.7	46
23	Controlled Electrochemical Deformation of Liquid-Phase Gallium. ACS Applied Materials & Interfaces, 2016, 8, 3833-3839.	8.0	38
24	Silver nanoparticle/PDMS nanocomposite catalytic membranes for H <sub>2</sub> S gas removal. Journal of Membrane Science, 2014, 470, 346-355.	8.2	37
25	Thermal analysis of nanofluids in microfluidics using an infrared camera. Lab on A Chip, 2012, 12, 2520.	6.0	22
26	Sonication synthesis of micro-sized silver nanoparticle/oleic acid liquid marbles: A novel SERS sensing platform. Sensors and Actuators B: Chemical, 2016, 223, 52-58.	7.8	20
27	Dynamic Nanofin Heat Sinks. Advanced Energy Materials, 2014, 4, 1300537.	19.5	19
28	Interaction of guided light in rib polymer waveguides with dielectrophoretically controlled nanoparticles. Microfluidics and Nanofluidics, 2011, 11, 93-104.	2.2	13
29	Microfluidic dielectrophoretic cell manipulation towards stable cell contact assemblies. Biomedical Microdevices, 2018, 20, 95.	2.8	10
30	Dynamic manipulation of modes in an optical waveguide using dielectrophoresis. Electrophoresis, 2012, 33, 2075-2085.	2.4	7
31	Dielectrophoresis of micro/nano particles using curved microelectrodes. Proceedings of SPIE, 2011, , .	0.8	1
32	Dielectrophoresis-Raman spectroscopy system for analysing suspended WO <sub>3</sub> nanoparticles. Proceedings of SPIE, 2011, , .	0.8	0
33	Tuneable optical waveguide based on dielectrophoresis and microfluidics. Proceedings of SPIE, 2011, , .	0.8	0
34	Fringe analysis approach for imaging surface undulations on technical surfaces. Optics Express, 2021, 29, 33067.	3.4	0