

# S M Fairclough

## List of Publications by Year in descending order

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43  
papers

1,065  
citations

430874

18  
h-index

414414

32  
g-index

45  
all docs

45  
docs citations

45  
times ranked

2266  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of wurtzite formation in MOVPE-grown zincblende GaN epilayers on Al <sub>x</sub> Ga <sub>1-x</sub> N nucleation layers. Journal of Applied Physics, 2022, 131, .	2.5	3
2	Synthesis of IR-emitting HgTe quantum dots using an ionic liquid-based tellurium precursor. Nanoscale Advances, 2021, 3, 4062-4064.	4.6	0
3	Origin(s) of Anomalous Substrate Conduction in MOVPE-Grown GaN HEMTs on Highly Resistive Silicon. ACS Applied Electronic Materials, 2021, 3, 813-824.	4.3	14
4	Point Defects in InGaN/GaN Core-Shell Nanorods: Role of the Regrowth Interface. Nano Express, 2021, 2, 014005.	2.4	4
5	Method for inferring the mechanical strain of GaN-on-Si epitaxial layers using optical profilometry and finite element analysis. Optical Materials Express, 2021, 11, 1643.	3.0	7
6	Multimicroscopy of cross-section zincblende GaN LED heterostructure. Journal of Applied Physics, 2021, 130, .	2.5	6
7	MXene Tunable Lamellae Architectures for Supercapacitor Electrodes. ACS Applied Energy Materials, 2020, 3, 411-422.	5.1	46
8	Alloy segregation at stacking faults in zincblende GaN heterostructures. Journal of Applied Physics, 2020, 128, 145703.	2.5	8
9	Stacking fault-associated polarized surface-emitted photoluminescence from zincblende InGaN/GaN quantum wells. Applied Physics Letters, 2020, 117, .	3.3	6
10	Crystalline Interlayers for Reducing the Effective Thermal Boundary Resistance in GaN-on-Diamond. ACS Applied Materials & Interfaces, 2020, 12, 54138-54145.	8.0	38
11	Rapid and Low-Temperature Molecular Precursor Approach toward Ternary Layered Metal Chalcogenides and Oxides: Mo <sub>1-x</sub> W <sub>x</sub> S <sub>2</sub> and Mo <sub>1-x</sub> W <sub>x</sub> O <sub>3</sub> Alloys (0 ≤ x ≤ 1). Chemistry of Materials, 2020, 32, 7895-7907.	6.7	13
12	Photo- and Electroluminescence from Zn-Doped InN Semiconductor Nanocrystals. Advanced Optical Materials, 2020, 8, 2000604.	7.3	4
13	Beyond surface redox and oxygen mobility at pd-polar ceria (100) interface: Underlying principle for strong metal-support interactions in green catalysis. Applied Catalysis B: Environmental, 2020, 270, 118843.	20.2	15
14	Enhanced Superconductivity in Few-Layer TaS <sub>2</sub> due to Healing by Oxygenation. Nano Letters, 2020, 20, 3808-3818.	9.1	23
15	Confinement Effects and Charge Dynamics in Zn <sub>3</sub> N <sub>2</sub> Colloidal Quantum Dots: Implications for QD-LED Displays. ACS Applied Nano Materials, 2019, 2, 7214-7219.	5.0	20
16	Optimizing hot carrier effects in Pt-decorated plasmonic heterostructures. Faraday Discussions, 2019, 214, 387-397.	3.2	15
17	An atom efficient, single-source precursor route to plasmonic CuS nanocrystals. Nanoscale Advances, 2019, 1, 522-526.	4.6	15
18	Ceria Nanocrystals Supporting Pd for Formic Acid Electrocatalytic Oxidation: Prominent Polar Surface Metal Support Interactions. ACS Catalysis, 2019, 9, 5171-5177.	11.2	38

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19	Characterising porosity in platinum nanoparticles. <i>Nanoscale</i> , 2019, 11, 17791-17799.	5.6	17
20	Photocatalytic hydrogen production by biomimetic indium sulfide using <i>Mimosa pudica</i> leaves as template. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2770-2783.	7.1	17
21	Magnetic conjugated polymer nanoparticles doped with a europium complex for biomedical imaging. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 718-721.	2.9	10
22	The passivating effect of cadmium in PbS/CdS colloidal quantum dots probed by nm-scale depth profiling. <i>Nanoscale</i> , 2017, 9, 6056-6067.	5.6	29
23	Gain Spectroscopy of Solution-Based Semiconductor Nanocrystals in Tunable Optical Microcavities. <i>Advanced Optical Materials</i> , 2016, 4, 285-290.	7.3	12
24	Charge dynamics at heterojunctions for PbS/ZnO colloidal quantum dot solar cells probed with time-resolved surface photovoltage spectroscopy. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	24
25	Importance of the structural integrity of a carbon conjugated mediator for photocatalytic hydrogen generation from water over a CdS-carbon nanotube-MoS <sub>2</sub> composite. <i>Chemical Communications</i> , 2016, 52, 13596-13599.	4.1	20
26	Hydrophobin-Encapsulated Quantum Dots. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 4887-4893.	8.0	15
27	Gain Spectroscopy and Tunable Single Mode Lasing of Solution-Based Quantum Dots and Nanoplatelets Using Tunable Open Microcavities. , 2016, , .		0
28	High-quality functionalized few-layer graphene: facile fabrication and doping with nitrogen as a metal-free catalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15444-15450.	10.3	53
29	A New Class of Tunable Heterojunction by using Two Support Materials for the Synthesis of Supported Bimetallic Catalysts. <i>ChemCatChem</i> , 2015, 7, 173-173.	3.7	0
30	Chemically-specific time-resolved surface photovoltage spectroscopy: Carrier dynamics at the interface of quantum dots attached to a metal oxide. <i>Surface Science</i> , 2015, 641, 320-325.	1.9	17
31	A New Class of Tunable Heterojunction by using Two Support Materials for the Synthesis of Supported Bimetallic Catalysts. <i>ChemCatChem</i> , 2015, 7, 230-235.	3.7	15
32	Dual doping effects (site blockage and electronic promotion) imposed by adatoms on Pd nanocrystals for catalytic hydrogen production. <i>Chemical Communications</i> , 2015, 51, 46-49.	4.1	17
33	Dynamics in next-generation solar cells: time-resolved surface photovoltage measurements of quantum dots chemically linked to ZnO (101 <sub>1</sub> ,0). <i>Faraday Discussions</i> , 2014, 171, 275-298.	3.2	20
34	Enhanced photocatalytic hydrogen evolution from water by niobate single molecular sheets and ensembles. <i>Chemical Communications</i> , 2014, 50, 13702-13705.	4.1	37
35	Nanojunction-Mediated Photocatalytic Enhancement in Heterostructured CdS/ZnO, CdSe/ZnO, and CdTe/ZnO Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7838-7842.	13.8	133
36	Influence of Shell Thickness and Surface Passivation on PbS/CdS Core/Shell Colloidal Quantum Dot Solar Cells. <i>Chemistry of Materials</i> , 2014, 26, 4004-4013.	6.7	129

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37	Additions and corrections published in 2013. <i>Chemical Communications</i> , 2013, 49, 11812.	4.1	1
38	Low temperature phase selective synthesis of Cu <sub>2</sub> ZnSnS <sub>4</sub> quantum dots. <i>Chemical Communications</i> , 2013, 49, 3745.	4.1	52
39	Influence of Luminescence Quantum Yield, Surface Coating, and Functionalization of Quantum Dots on the Sensitivity of Time-Resolved FRET Bioassays. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 2881-2892.	8.0	60
40	Controlling the emission from semiconductor quantum dots using ultra-small tunable optical microcavities. <i>New Journal of Physics</i> , 2012, 14, 103048.	2.9	28
41	Growth and Characterization of Strained and Alloyed Type-II ZnTe/ZnSe Core-Shell Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26898-26907.	3.1	50
42	Ultrafast exciton dynamics in Type II ZnTe-ZnSe colloidal quantum dots. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13638.	2.8	15
43	Synthesis and catalytic activity of hybrid metal/silicon nanocomposites. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008, 2, 132-134.	2.4	19