

# Richard Webster

## List of Publications by Year in descending order

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40  
papers

1,244  
citations

394421

19  
h-index

361022

35  
g-index

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all docs

40  
docs citations

40  
times ranked

2093  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gallium Nanodroplets are Anti-Inflammatory without Interfering with Iron Homeostasis. ACS Nano, 2022, 16, 8891-8903.	14.6	33
2	Introducing Stacking Faults into Three-Dimensional Branched Nickel Nanoparticles for Improved Catalytic Activity. Journal of the American Chemical Society, 2022, 144, 11094-11098.	13.7	27
3	Exploration of sub-bandgap states in 2D halide perovskite single-crystal photodetector. Npj 2D Materials and Applications, 2022, 6, .	7.9	16
4	Formation of Si-Rich Interfaces by Radiation-Induced Diffusion and Microsegregation in CrN/ZrN Nanolayer Coating. ACS Applied Materials & Interfaces, 2021, 13, 16928-16938.	8.0	21
5	Synthetic Mechanism Studies of Iron Selenides: An Emerging Class of Materials for Electrocatalysis. Catalysts, 2021, 11, 681.	3.5	5
6	A New Method for the XEDS $\hat{\Gamma}$ -factor Measurement Through Modulation of Beam Current.. Microscopy and Microanalysis, 2021, 27, 2064-2067.	0.4	0
7	2D Porphyrinic Metal-Organic Framework Nanosheets as Multidimensional Photocatalysts for Functional Materials. Angewandte Chemie - International Edition, 2021, 60, 22664-22671.	13.8	56
8	Enhanced graphitic domains of unreduced graphene oxide and the interplay of hydration behaviour and catalytic activity. Materials Today, 2021, 50, 44-54.	14.2	27
9	Fatigue and dynamic aging behavior of a high strength Al-5024 alloy fabricated by laser powder bed fusion additive manufacturing. Acta Materialia, 2021, 220, 117312.	7.9	59
10	Microalloying effects of Mo versus Cr in HSLA steels with ultrafine-grained ferrite microstructures. Materials and Design, 2020, 185, 108278.	7.0	20
11	Evidence of Low-Temperature Joints in Silver Nanowire Based Transparent Conducting Layers for Solar Cells. ACS Applied Nano Materials, 2020, 3, 3205-3213.	5.0	7
12	Assembly of cerium-based coordination polymer into variant polycrystalline 2D-3D CeO <sub>2</sub> nanostructures. Journal of Materials Chemistry A, 2020, 8, 4753-4763.	10.3	20
13	Preserving the Exposed Facets of Pt <sub>3</sub> Sn Intermetallic Nanocubes During an Order to Disorder Transition Allows the Elucidation of the Effect of the Degree of Alloy Ordering on Electrocatalysis. Journal of the American Chemical Society, 2020, 142, 3231-3239.	13.7	57
14	Nanoscale architecture of (CrN/ZrN)/(Cr/Zr) nanocomposite coatings: Microstructure, composition, mechanical properties and first-principles calculations. Journal of Alloys and Compounds, 2020, 831, 154808.	5.5	34
15	Antibacterial Effect of Au Implantation in Ductile Nanocomposite Multilayer (TiAlSiY)N/CrN Coatings. ACS Applied Materials & Interfaces, 2019, 11, 48540-48550.	8.0	36
16	Advanced Thermo-mechanical Process for Homogenous Hierarchical Microstructures in HSLA Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 5800-5815.	2.2	4
17	Interfacial origins of visible-light photocatalytic activity in ZnS-GaP multilayers. Acta Materialia, 2019, 181, 139-147.	7.9	5
18	Electrochemical Reduction of CO <sub>2</sub> on Nitrogen-Doped Carbon Catalysts With and Without Iron. ChemElectroChem, 2019, 6, 4626-4636.	3.4	17

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19	Direct Growth of Highly Strained Pt Islands on Branched Ni Nanoparticles for Improved Hydrogen Evolution Reaction Activity. <i>Journal of the American Chemical Society</i> , 2019, 141, 16202-16207.	13.7	113
20	Quasiepitaxy Strategy for Efficient Full-Inorganic Sb <sub>2</sub> S <sub>3</sub> Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1901720.	14.9	136
21	Proton-assisted creation of controllable volumetric oxygen vacancies in ultrathin CeO <sub>2-x</sub> for pseudocapacitive energy storage applications. <i>Nature Communications</i> , 2019, 10, 2594.	12.8	75
22	Electron microscopy and its role in advanced lithium-ion battery research. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1623-1646.	4.9	25
23	Ionic interdiffusion as interaction mechanism between Al and Si <sub>3</sub> N <sub>4</sub> . <i>Journal of the American Ceramic Society</i> , 2019, 102, 4835-4847.	3.8	6
24	Ultrathin Fe-N Nanosheets Coordinated Fe-Doped CoNi Alloy Nanoparticles for Electrochemical Water Splitting. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1800252.	2.3	21
25	Simultaneous Functionalization of Carbon Surfaces with Rhodium and Iridium Organometallic Complexes: Hybrid Bimetallic Catalysts for Hydroamination. <i>Organometallics</i> , 2019, 38, 780-787.	2.3	17
26	Electron microscopy and diffraction studies of pulsed laser deposited cuprous oxide thin films grown at low substrate temperatures. <i>Materialia</i> , 2018, 3, 230-238.	2.7	24
27	Largely Enhanced Mobility in Trilayered LaAlO <sub>3</sub> /SrTiO <sub>3</sub> /LaAlO <sub>3</sub> Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 20950-20958.	8.0	3
28	Pd-Ru core-shell nanoparticles with tunable shell thickness for active and stable oxygen evolution performance. <i>Nanoscale</i> , 2018, 10, 15173-15177.	5.6	42
29	Composition and strain relaxation of In <sub>x</sub> Ga <sub>1-x</sub> N graded core-shell nanorods. <i>Nanotechnology</i> , 2018, 29, 405706.	2.6	3
30	Morphological and electrical comparison of Ti and Ta based ohmic contacts for AlGaN/GaN-on-SiC HFETs. <i>Microelectronics Reliability</i> , 2017, 68, 2-4.	1.7	10
31	Electronic and optical properties of single crystal SnS <sub>2</sub> : an earth-abundant disulfide photocatalyst. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1312-1318.	10.3	246
32	Microstructure of In <sub>x</sub> Ga <sub>1-x</sub> N nanorods grown by molecular beam epitaxy. <i>Semiconductor Science and Technology</i> , 2015, 30, 114014.	2.0	0
33	Electron microscopy of gallium nitride growth on polycrystalline diamond. <i>Semiconductor Science and Technology</i> , 2015, 30, 114007.	2.0	10
34	Rapid phosphine-free synthesis of CdSe quantum dots: promoting the generation of Se precursors using a radical initiator. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6879-6886.	10.3	31
35	Tungsten oxide nanorod growth by pulsed laser deposition: influence of substrate and process conditions. <i>Nanoscale</i> , 2014, 6, 13586-13597.	5.6	14
36	Transmission electron microscopy of indium gallium nitride nanorods grown by molecular beam epitaxy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014, 11, 417-420.	0.8	7

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37	Compositional variations in In <sub>0.5</sub> Ga <sub>0.5</sub> N nanorods grown by molecular beam epitaxy. <i>Nanotechnology</i> , 2014, 25, 215705.	2.6	9
38	Molecular beam epitaxy of InN nanorods on Si- and C-faces of SiC substrates. <i>Journal of Crystal Growth</i> , 2014, 386, 135-138.	1.5	5
39	The growth of In <sub>0.5</sub> Ga <sub>0.5</sub> N and InN layers on (111)Si using nanorod intermediate arrays. <i>Journal of Crystal Growth</i> , 2013, 384, 55-60.	1.5	2
40	Indium Nitride and Indium Gallium Nitride layers grown on nanorods. <i>Journal of Physics: Conference Series</i> , 2013, 471, 012025.	0.4	1