

Benjamin Daniel Wiltshire

List of Publications by Year in descending order

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32
papers

1,022
citations

361296
20
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454834
30
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32
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docs citations

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times ranked

1351
citing authors

#	ARTICLE	IF	CITATIONS
1	Multinuclear Magnetic Resonance Tracking of Hydro, Thermal, and Hydrothermal Decomposition of $\text{CH}_3\text{NH}_3\text{PbI}_3$. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1013-1024.	1.5	77
2	Phosphorescence within benzotellurophenes and color tunable tellurophenes under ambient conditions. <i>Chemical Communications</i> , 2015, 51, 5444-5447.	2.2	74
3	Composition-Tunable Formamidinium Lead Mixed Halide Perovskites via Solvent-Free Mechanochemical Synthesis: Decoding the Pb Environments Using Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2671-2677.	2.1	74
4	3-D Printing Microfluidic Channels With Embedded Planar Microwave Resonators for RFID and Liquid Detection. <i>IEEE Microwave and Wireless Components Letters</i> , 2019, 29, 65-67.	2.0	69
5	Halide perovskite solar cells using monocrystalline TiO_2 nanorod arrays as electron transport layers: impact of nanorod morphology. <i>Nanotechnology</i> , 2017, 28, 274001.	1.3	67
6	Passive Split Ring Resonator Tag Configuration for RFID-Based Wireless Permittivity Sensing. <i>IEEE Sensors Journal</i> , 2020, 20, 1904-1911.	2.4	59
7	Gold Coplanar Waveguide Resonator Integrated With a Microfluidic Channel for Aqueous Dielectric Detection. <i>IEEE Sensors Journal</i> , 2020, 20, 9825-9833.	2.4	52
8	Modified Microwave Sensor with a Patterned Ground Heater for Detection and Prevention of Ice Accumulation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55483-55492.	4.0	44
9	Electron Transport, Trapping and Recombination in Anodic TiO_2 Nanotube Arrays. <i>Current Nanoscience</i> , 2015, 11, 593-614.	0.7	38
10	Rutile phase n- and p-type anodic titania nanotube arrays with square-shaped pore morphologies. <i>Chemical Communications</i> , 2015, 51, 7816-7819.	2.2	37
11	Effect of phosphonate monolayer adsorbate on the microwave photoresponse of TiO_2 nanotube membranes mounted on a planar double ring resonator. <i>Nanotechnology</i> , 2016, 27, 375201.	1.3	37
12	Wideband Tunable Modified Split Ring Resonator Structure Using Liquid Metal and 3-D Printing. <i>IEEE Microwave and Wireless Components Letters</i> , 2020, 30, 469-472.	2.0	35
13	Top-Down Approaches Towards Single Crystal Perovskite Solar Cells. <i>Scientific Reports</i> , 2018, 8, 4906.	1.6	34
14	Graphene oxide/polyaniline-based microwave split-ring resonator: A versatile platform towards ammonia sensing. <i>Journal of Hazardous Materials</i> , 2021, 418, 126283.	6.5	31
15	Amphiphobic surfaces from functionalized TiO_2 nanotube arrays. <i>RSC Advances</i> , 2014, 4, 33587-33598.	1.7	25
16	All-solution processed, scalable superhydrophobic coatings on stainless steel surfaces based on functionalized discrete titania nanotubes. <i>Chemical Engineering Journal</i> , 2018, 351, 482-489.	6.6	24
17	100-fold improvement in carrier drift mobilities in alkanephosphonate-passivated monocrystalline TiO_2 nanowire arrays. <i>Nanotechnology</i> , 2017, 28, 144001.	1.3	23
18	Reduced Ensemble Plasmon Line Widths and Enhanced Two-Photon Luminescence in Anodically Formed High Surface Area $\text{Au}@\text{TiO}_2$ 3D Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 740-749.	4.0	23

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19	Heterojunctions of mixed phase TiO ₂ nanotubes with Cu, CuPt, and Pt nanoparticles: interfacial band alignment and visible light photoelectrochemical activity. <i>Nanotechnology</i> , 2018, 29, 014002.	1.3	22
20	TiO ₂ nanotube-integrated microwave planar resonator sensor for ultraviolet transmission-based liquid characterization. <i>Sensors and Actuators B: Chemical</i> , 2021, 341, 130014.	4.0	22
21	Microwave resonator array with liquid metal selection for narrow band material sensing. <i>Scientific Reports</i> , 2021, 11, 8598.	1.6	21
22	Distinguishing between Deep Trapping Transients of Electrons and Holes in TiO ₂ Nanotube Arrays Using Planar Microwave Resonator Sensor. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29857-29865.	4.0	17
23	Majority carrier transport in single crystal rutile nanowire arrays. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 512-516.	1.2	16
24	Oleophobic textiles with embedded liquid and vapor hazard detection using differential planar microwave resonators. <i>Journal of Hazardous Materials</i> , 2021, 409, 124945.	6.5	16
25	Differential Narrow Bandpass Microstrip Filter Design for Material and Liquid Purity Interrogation. <i>IEEE Sensors Journal</i> , 2019, 19, 10545-10553.	2.4	15
26	Optical anisotropy in vertically oriented TiO ₂ nanotube arrays. <i>Nanotechnology</i> , 2017, 28, 374001.	1.3	14
27	High Breakdown Strength Schottky Diodes Made from Electrodeposited ZnO for Power Electronics Applications. <i>ACS Applied Electronic Materials</i> , 2019, 1, 13-17.	2.0	14
28	Integrating 3D Printed Microfluidic Channels With Planar Resonator Sensors for Low Cost and Sensitive Liquid Detection. , 2018, , .		13
29	High-Frequency TiO ₂ Nanotube-Adapted Microwave Coplanar Waveguide Resonator for High-Sensitivity Ultraviolet Detection. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 6203-6211.	4.0	13
30	Charge transport, doping and luminescence in solution-processed, phosphorescent, air-stable tellurophene thin films. <i>Organic Electronics</i> , 2016, 39, 153-162.	1.4	10
31	Radial Heterojunction Solar Cell Consisting of n-Type Rutile Nanowire Arrays Infiltrated by p-Type CdTe. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 5119-5123.	0.9	4
32	The Wetting Behavior of TiO ₂ Nanotube Arrays With Perfluorinated Surface Functionalization. , 2014, , .		2