

Daragh Byrne

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

306
citations

759055

12
h-index

839398

18
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19
all docs

19
docs citations

19
times ranked

487
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ generation of plasmonic cavities for high sensitivity fluorophore and biomolecule detection. <i>Nanoscale</i> , 2018, 10, 18555-18564.	2.8	2
2	Controlled surface plasmon enhanced fluorescence from 1D gold gratings via azimuth rotations. <i>Methods and Applications in Fluorescence</i> , 2017, 5, 015004.	1.1	3
3	Highly sensitive detection of C-reactive protein using a novel dissolution approach in a dye-doped silica nanoparticle-based fluorescence immunoassay. <i>Analytical Methods</i> , 2017, 9, 994-1003.	1.3	10
4	Dislocation loops as a mechanism for thermoelectric power factor enhancement in silicon nano-layers. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	25
5	The role of annealing conditions on the low temperature photoluminescence properties of CuAlO ₂ . <i>Journal of Luminescence</i> , 2016, 170, 212-218.	1.5	8
6	Direct spray deposition of silver nanoparticle films for biosensing applications. <i>RSC Advances</i> , 2015, 5, 62836-62843.	1.7	5
7	Enhanced Seebeck coefficient in silicon nanowires containing dislocations. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	17
8	The luminescent properties of CuAlO ₂ . <i>Journal of Materials Chemistry C</i> , 2014, 2, 7859-7868.	2.7	20
9	Dellafoosite CuAlO ₂ film growth and conversion to Cu ²⁺ Al ₂ O ₃ metal ceramic composite via control of annealing atmospheres. <i>CrystEngComm</i> , 2013, 15, 6144.	1.3	12
10	Chemical identification of luminescence due to Sn and Sb in ZnO. <i>Applied Physics Letters</i> , 2013, 102, 192110.	1.5	13
11	Unambiguous identification of the role of a single Cu atom in the ZnO structured green band. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 215802.	0.7	24
12	Length versus Radius Relationship for ZnO Nanowires Grown via Vapor Phase Transport. <i>Crystal Growth and Design</i> , 2012, 12, 5972-5979.	1.4	11
13	A catalyst-free and facile route to periodically ordered and c-axis aligned ZnO nanorod arrays on diverse substrates. <i>Nanoscale</i> , 2011, 3, 1675.	2.8	25
14	Study of Morphological and Related Properties of Aligned Zinc Oxide Nanorods Grown by Vapor Phase Transport on Chemical Bath Deposited Buffer Layers. <i>Crystal Growth and Design</i> , 2011, 11, 5378-5386.	1.4	29
15	Field emission in ordered arrays of ZnO nanowires prepared by nanosphere lithography and extended Fowler-Nordheim analyses. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	16
16	A novel, substrate independent three-step process for the growth of uniform ZnO nanorod arrays. <i>Thin Solid Films</i> , 2010, 518, 4489-4492.	0.8	27
17	Multiphoton-absorption induced ultraviolet luminescence of ZnO nanorods using low-energy femtosecond pulses. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	23
18	A Study of Drop-Coated and Chemical Bath-Deposited Buffer Layers for Vapor Phase Deposition of Large Area, Aligned, Zinc Oxide Nanorod Arrays. <i>Crystal Growth and Design</i> , 2010, 10, 2400-2408.	1.4	36