Toby D Young

List of Publications by Year
in descending order

18 papers	**127** citations

1307594

7 h-index	

1281871

11 g-index	

18 all docs	**18** docs citations
18 times ranked	**169** citing authors

#	ARTICLE	IF	CITATIONS
1	Morphology and strain of self-assembled semipolar GaN quantum dots in (112Ā2) AlN. Journal of Applied Physics, 2010, 108, .	2.5	20
2	On the adaptive finite element analysis of the Kohn–Sham equations: methods, algorithms, and implementation. International Journal for Numerical Methods in Engineering, 2016, 106, 863-888.	2.8	18
3	A Hartree–Fock study of the confined helium atom: Local and global basis set approaches. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 712-717.	2.1	15
4	Influence of hydrostatic pressure on the built-in electric field in ZnO/ZnMgO quantum wells. Journal of Applied Physics, 2016, 119, 215702.	2.5	13
5	3D modelling of misfit networks in the interface region of heterostructures. Journal Physics D: Applied Physics, 2007, 40, 4084-4091.	2.8	11
6	Computer Modeling of Nanoindentation in the Limits of a Coupled Molecular-Statics and Elastic Scheme. Journal of Computational and Theoretical Nanoscience, 2010, 7, 1172-1181.	0.4	10
7	Finite element modelling of semi and nonpolar GaN/AlN quantum dots. Applied Surface Science, 2012, 260, 59-64.	6.1	10
8	Strategies for h -Adaptive Refinement for a Finite Element Treatment of Harmonic Oscillator Schrödinger Eigenproblem. Communications in Theoretical Physics, 2010, 53, 1017-1023.	2.5	6
9	A quantum dot nucleated on the edge of a threading dislocation: elastic and electric field effects. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 97-100.	0.8	6
10	Nonlinear piezoelectric properties of GaN quantum dots nucleated at the edge of threading dislocations. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 2399-2402.	0.8	4
11	Parallel finite element density functional computations exploiting grid refinement and subspace recycling. Computer Physics Communications, 2013, 184, 66-72.	7.5	4
12	A study of the piezoelectric properties of semipolar 112Ì…2 GaN/AlN quantum dots. Physica Status Solidi (B): Basic Research, 2015, 252, 2296-2303.	1.5	4
13	Continuum and Atomistic Modeling of the Mixed Straight Dislocation. International Journal for Multiscale Computational Engineering, 2010, 8, 331-342.	1.2	4
14	Influence of strain and polarisation on electronic properties of a GaN/AlN quantum dot. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S557-S560.	0.8	2
15	Removal of spurious admixture in a self-consistent theory of adiabatic large amplitude collective motion. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, 1067-1081.	3.6	0
16	A Non-Singular Computational Method for Modelling Defects in Nanocrystalline Materials. , 2009, , .		0
17	Exemplifying Quantum Systems in a Finite Element Basis. , 2009, , .		0
18	Nonlinear Finite Element and Atomistic Modelling of Dislocations in Heterostructures. Advanced Structured Materials, 2010, , 239-253.	0.5	0