Alexander Quandt

List of Publications by Year
in descending order

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		1163117	839539
35	323	8	18
papers	citations	h-index	g-index

35	35	35	520
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Algebraic solution of the Hartree equation based on a tensor eigenvalue approach. Theoretical Chemistry Accounts, 2022, 141, .	1.4	0
2	Supersymmetric SchrÃ¶dinger operators: an alternative approach using pseudo-differential operators. Quantum Studies: Mathematics and Foundations, 2021, 8, 205-215.	0.9	0
3	Solar cell simulations based on ab initio methods [Invited]. Optical Materials Express, 2021, 11, 1763.	3.0	2
4	Winding numbers, discriminants and topological phase transitions. Physica B: Condensed Matter, 2021, 612, 412867.	2.7	3
5	Simulations of conventional and augmented types of solar cells. , 2020, , 249-276.		2
6	Many-electron theory based on a similarity transformation and a condensate reference system. Theoretical Chemistry Accounts, 2020, 139, 1.	1.4	1
7	Waveguide Arrays and Optical Analogies. , 2020, , .		0
8	Annealing Boosts the Supercapacitive Properties of Molybdenum Disulfide Powder. Electroanalysis, 2020, 32, 2642-2649.	2.9	3
9	Annealing effect on the structural and optical behavior of ZnO:Eu3+ thin film grown using RF magnetron sputtering technique and application to dye sensitized solar cells. Scientific Reports, 2020, 10, 8557.	3.3	24
10	All materials great and small. South African Journal of Science, 2020, 116, .	0.7	0
11	Solar Cell Simulations Made Easy. , 2019, , .		0
12	Role of oxygen concentrations on structural and optical properties of RF magnetron sputtered ZnO thin films. Optical and Quantum Electronics, 2019, 51, 1.	3.3	6
13	Effect of implantation of Sm+ ions into RF sputtered ZnO thin film. AIP Advances, 2019, 9, .	1.3	10
14	Brillouin zone grid refinement for highly resolved ab initio THz optical properties of graphene. Computer Physics Communications, 2018, 228, 96-99.	7.5	2
15	Advanced Light Harnessing Features in Solar Cell device Simulations. , 2018, , .		0
16	About the Implementation of Frequency Conversion Processes in Solar Cell Device Simulations. Micromachines, 2018, 9, 435.	2.9	7
17	Effect of thermal treatment on ZnO:Tb³⁺ nano-crystalline thin films and application for spectral conversion in inverted organic solar cells. RSC Advances, 2018, 8, 29274-29282.	3.6	12
18	Computational plasmonics with applications to bulk and nanosized systems. , 2018, , .		0

#	Article	IF	Citations
19	Structural and spectroscopic analysis of ex-situ annealed RF sputtered aluminium doped zinc oxide thin films. Journal of Applied Physics, 2017, 122, .	2.5	7
20	Solar cell device simulations. , 2017, , .		0
21	Investigation of density fluctuations in graphene using the fluctuation-dissipation relations. Computational Condensed Matter, 2017, 13, 1-5.	2.1	1
22	Improved efficiency of organic solar cells using Au NPs incorporated into PEDOT:PSS buffer layer. AIP Advances, 2017, 7, .	1.3	35
23	Double-layer capacitance for a charged surface. Ionics, 2017, 23, 331-335.	2.4	1
24	Photovoltaics from first principles. , 2016, , .		0
25	About optical localization in photonic quasicrystals. Optical and Quantum Electronics, 2016, 48, 1.	3.3	0
26	Plasmonic and dielectric properties of ideal graphene. Computational Materials Science, 2016, 114, 18-22.	3.0	6
27	About plasmons and plasmonics in graphene. , 2015, , .		0
28	Localization of metallicity and magnetic properties of graphene and of graphene nanoribbons doped with boron clusters. Philosophical Magazine, 2014, 94, 1841-1858.	1.6	8
29	Ab initio simulations of optical materials. , 2014, , .		0
30	Dielectric Properties of Selected Metalâ€“Organic Frameworks. Journal of Physical Chemistry C, 2014, 118, 11799-11805.	3.1	40
31	Ab initio determination of basic dielectric properties. , 2013, , .		0
32	Computational photonics from the bottom-up. , 2012, , .		0
33	Hybrid quasiperiodic-periodic structures constructed by projection in two stages. Acta Crystallographica Section A: Foundations and Advances, 2007, 63, 177-185.	0.3	4
34	Boron Nanotubes. ChemPhysChem, 2005, 6, 2001-2008.	2.1	120
35	Ab initiobased modeling ofi-AlPdMn. Physical Review B, 2000, 61, 9336-9344.	3.2	29