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	Boron Nanotubes. ChemPhysChem, 2005, 6, 2001-2008.	2.1	120
2	Dielectric Properties of Selected Metalâ€“Organic Frameworks. Journal of Physical Chemistry C, 2014, 118, 11799-11805.	3.1	40
3	Improved efficiency of organic solar cells using Au NPs incorporated into PEDOT:PSS buffer layer. AIP Advances, 2017, 7, .	1.3	35
4	Ab initiobased modeling ofi-AlPdMn. Physical Review B, 2000, 61, 9336-9344.	3.2	29
5	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
6	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
7	Effect of implantation of Sm+ ions into RF sputtered ZnO thin film. AIP Advances, 2019, 9, .	1.3	10
8	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
9	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
10	About the Implementation of Frequency Conversion Processes in Solar Cell Device Simulations. Micromachines, 2018, 9, 435.	2.9	7
11	Plasmonic and dielectric properties of ideal graphene. Computational Materials Science, 2016, 114, 18-22.	3.0	6
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	Hybrid quasiperiodic-periodic structures constructed by projection in two stages. Acta Crystallographica Section A: Foundations and Advances, 2007, 63, 177-185.	0.3	4
14	Annealing Boosts the Supercapacitive Properties of Molybdenum Disulfide Powder. Electroanalysis, 2020, 32, 2642-2649.	2.9	3
15	Winding numbers, discriminants and topological phase transitions. Physica B: Condensed Matter, 2021, 612, 412867.	2.7	3
16	Brillouin zone grid refinement for highly resolved ab initio THz optical properties of graphene. Computer Physics Communications, 2018, 228, 96-99.	7.5	2
17	Simulations of conventional and augmented types of solar cells. , 2020, , 249-276.		2
18	Solar cell simulations based on ab initio methods [Invited]. Optical Materials Express, 2021, 11, 1763.	3.0	2

#	Article	IF	Citations
19	Investigation of density fluctuations in graphene using the fluctuation-dissipation relations. Computational Condensed Matter, 2017, 13, 1-5.	2.1	1
20	Double-layer capacitance for a charged surface. Ionics, 2017, 23, 331-335.	2.4	1
21	Many-electron theory based on a similarity transformation and a condensate reference system. Theoretical Chemistry Accounts, 2020, 139, 1.	1.4	1
22	Computational photonics from the bottom-up. , 2012, , .		0
23	Ab initio determination of basic dielectric properties. , 2013, , .		0
24	Ab initio simulations of optical materials. , 2014, , .		0
25	About plasmons and plasmonics in graphene. , 2015, , .		0
26	Photovoltaics from first principles. , 2016, , .		0
27	About optical localization in photonic quasicrystals. Optical and Quantum Electronics, 2016, 48, 1.	3.3	0
28	Solar cell device simulations. , 2017, , .		0
29	Advanced Light Harnessing Features in Solar Cell device Simulations. , 2018, , .		0
30	Solar Cell Simulations Made Easy. , 2019, , .		0
31	Waveguide Arrays and Optical Analogies. , 2020, , .		0
32	Supersymmetric SchrÃ¶dinger operators: an alternative approach using pseudo-differential operators. Quantum Studies: Mathematics and Foundations, 2021, 8, 205-215.	0.9	0
33	Computational plasmonics with applications to bulk and nanosized systems. , 2018, , .		0
34	All materials great and small. South African Journal of Science, 2020, 116, .	0.7	0
35	Algebraic solution of the Hartree equation based on a tensor eigenvalue approach. Theoretical Chemistry Accounts, 2022, 141, .	1.4	0