

Apostolos G Marinopoulos

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,490
citations

361413

20
h-index

315739

38
g-index

48
all docs

48
docs citations

48
times ranked

1450
citing authors

#	ARTICLE	IF	CITATIONS
19	Incorporation and migration of hydrogen in yttria-stabilized cubic zirconia: Insights from semilocal and hybrid-functional calculations. Physical Review B, 2012, 86, .	3.2	23
20	Electronic structure of interstitial hydrogen in lutetium oxide from DFT and comparison study with Physical Review B, 2016, 94, .	3.2	21
21	Titanium in silicon: Lattice positions and electronic properties. Applied Physics Letters, 2014, 104, 152105.	3.3	20
22	Ab initio study of the dielectric response of crystalline ropes of metallic single-walled carbon nanotubes: Tube-diameter and helicity effects. Physical Review B, 2008, 78, .	3.2	16
23	DFT study of electrical levels and migration barriers of early transition metals in silicon. Physical Review B, 2015, 92, .	3.2	16
24	Impurity segregation and ordering in SiO ₂ . Physical Review B, 2008, 77, .	3.2	12
25	Defect levels and hyperfine constants of hydrogen in beryllium oxide from hybrid-functional calculations and muonium spectroscopy. Philosophical Magazine, 2017, 97, 2108-2128.	1.6	13
26	Local and Effective Elastic Properties of Grain Boundaries in Silicon. Physica Status Solidi A, 1998, 166, 453-473.	1.7	12
27	Local-field and excitonic effects in the optical response of α -alumina. Physical Review B, 2011, 83, .	3.2	12
28	Recombination via transition metals in solar silicon: The significance of hydrogen-metal reactions and lattice sites of metal atoms. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700304.	1.8	11
29	Protons in cubic yttria-stabilized zirconia: Binding sites and migration pathways. Solid State Ionics, 2018, 315, 116-125.	2.7	9
30	First-principles study of the formation energies and positron lifetimes of vacancies in the Yttrium-Aluminum Garnet Y ₃ Al ₅ O ₁₂ . European Physical Journal B, 2019, 92, 1.	1.5	9
31	Electronic structure and migration of interstitial hydrogen in the rutile phase of TiO ₂ . Journal of Physics Condensed Matter, 2018, 30, 425503.	1.8	8
32	First-principles study of hydrogen configurations at the core of a high-angle grain boundary in cubic yttria-stabilized zirconia. Journal of Physics Condensed Matter, 2014, 26, 025502.	1.8	7
33	Muon-Spin-Rotation study of yttria-stabilized zirconia (ZrO ₂ :Y): Evidence for muon and electron separate traps. Journal of Physics: Conference Series, 2014, 551, 012050.	0.4	6
34	First principles study of segregation to the $\sqrt{5}(310)$ grain boundary of cubic zirconia. Journal of Physics Condensed Matter, 2011, 23, 085005.	1.8	5
35	Hydrogen states in mixed-cation Cu _{1-x} Ga _x Se ₂ chalcopyrite alloys: a combined study by first-principles density-functional calculations and muon-spin spectroscopy. Philosophical Magazine, 0, , 1-23.	1.6	5
36	Positron lifetimes of bare and hydrogenated zirconium vacancies in cubic yttria-stabilized zirconia: an ab initio study. Journal of Physics Condensed Matter, 2019, 31, 315503.	1.8	4

#	ARTICLE	IF	CITATIONS
37	Supp. Info. $\int_{-\infty}^{\infty} \frac{1}{x^2} dx$ puzzle: Joint $\int_{-\infty}^{\infty} \frac{1}{x^2} dx$ and density functional theory study. <i>Physical Review B</i> , 2021, 103, .	3.2	3
38	Optical absorption in small BN and C nanotubes. <i>AIP Conference Proceedings</i> , 2003, , .	0.4	2
39	Performance, reliability, radiation effects, and aging issues in microelectronics - from atomic-scale physics to engineering-level modeling. , 2009, , .		2
40	Performance, reliability, radiation effects, and aging issues in microelectronics — from atomic-scale physics to engineering-level modeling. , 2009, , .		2
41	Performance, Reliability, Radiation Effects, and Aging Issues in Microelectronics - From Atomic-Scale Physics to Engineering-Level Modeling. <i>ECS Transactions</i> , 2009, 19, 319-337.	0.5	1
42	Electrical Levels and Diffusion Barriers of Early 3d and 4d Transition Metals in Silicon. <i>Solid State Phenomena</i> , 0, 242, 264-270.	0.3	1
43	Binding and energetics of oxygen at the CuInSe_2 chalcopyrite and the $\text{CuInSe}_2/\text{CdS}$ interface. <i>Physica Scripta</i> , 0, , .	2.5	1
44	Microscopic Analysis of Twin Grain Boundaries in Alumina. <i>Microscopy and Microanalysis</i> , 2001, 7, 312-313.	0.4	0
45	Seeing inside materials by aberration-corrected electron microscopy. <i>International Journal of Nanotechnology</i> , 2011, 8, 935.	0.2	0
46	Zr vacancies and their complexes with hydrogen in monoclinic zirconia: formation energies and positron lifetimes. <i>Physica Scripta</i> , 2020, 95, 035801.	2.5	0
47	Microscopic Characterization of Devices by Scanning Transmission Electron Microscopy: From Single Atom Imaging to Macroscopic Properties. , 2009, , .		0
48	Interaction of hydrogen impurities with intrinsic point defects at the $\text{CuInSe}_2/\text{CdS}$ interface of chalcopyrite-based solar cells. <i>European Physical Journal B</i> , 2022, 95, 1.	1.5	0