Simone Giusepponi

List of Publications by Year
in descending order

29 papers	1,102 citations	840776 11 h-index	610901 24 g-index
30 all docs	30 docs citations	30 times ranked	1338 citing authors

#	Article	IF	Citations
1	Ab Initio Study of Octane Moiety Adsorption on H- and Cl-Functionalized Silicon Nanowires. Nanomaterials, 2022, 12, 1590.	4.1	2
2	Non-Equilibrium Green Functions Approach to Study Transport Through a-Si:H/c-Si Interfaces. , 2021, , .		0
3	Ultra-Fast High-PrecisionÂMetallic Nanoparticle Synthesis using Laser-Accelerated Protons. Scientific Reports, 2020, 10, 9570.	3.3	8
4	A Combined Classical Molecular Dynamics Simulations and AB Initio Calculations Approach to Study A-SI:H/C-SI Interfaces. , 2020, , .		1
5	Fast Access to Remote Objects 2.0 a renewed gateway to ENEAGRID distributed computing resources. Future Generation Computer Systems, 2019, 94, 920-928.	7.5	10
6	Multiscale in modelling and validation for solar photovoltaics. EPJ Photovoltaics, 2018, 9, 10.	1.6	6
7	Computational characterization of a-Si:H/c-Si interfaces. Journal of Computational Electronics, 2018, 17, 1457-1469.	2.5	3
8	Ab initio study on localization and finite size effects in the structural, electronic, and optical properties of hydrogenated amorphous silicon. Computational Materials Science, 2018, 155, 159-168.	3.0	7
9	Ab-initio study of hydrogen mobility in the vicinity of MgH2Mg interface: The role of Ti and TiO2. Journal of Alloys and Compounds, 2017, 696, 548-559.	5.5	11
10	Ab Initio Description of Optoelectronic Properties at Defective Interfaces in Solar Cells. Lecture Notes in Computer Science, 2017, , 111-124.	1.3	2
11	Towards a Multi-scale Approach to the Simulation of Silicon Hetero-junction Solar Cells. Journal of Green Engineering (discontinued), 2016, 5, 11-32.	0.7	3
12	Molecular dynamics of ionic self-diffusion at an MgO grain boundary. Journal of Materials Science, 2015, 50, 2502-2509.	3.7	21
13	The role of nickel catalyst in hydrogen desorption from MgH 2 : A DFT study. International Journal of Hydrogen Energy, 2015, 40, 9326-9334.	7.1	15
14	The effects of vacancies in the mechanical properties of tungsten: A first-principles study. Nuclear Instruments & Methods in Physics Research B, 2015, 342, 70-75.	1.4	12
15	The role of medium size facilities in the HPC ecosystem: the case of the new CRESCO4 cluster integrated in the ENEAGRID infrastructure. , 2014, , .		87
16	Local fivefold symmetry in liquid and undercooled Ni probed by x-ray absorption spectroscopy and computer simulations. Physical Review B, 2014, 89, .	3.2	37
17	DFT model of hydrogen desorption from MgH2: The role of iron catalyst. International Journal of Hydrogen Energy, 2013, 38, 15254-15263.	7.1	25
18	A brief summary of the progress on the EFDA tungsten materials program. Journal of Nuclear Materials, 2013, 442, S173-S180.	2.7	69

#	Article	IF	Citations
19	The ideal tensile strength of tungsten and tungsten alloys by first-principles calculations. Journal of Nuclear Materials, 2013, 435, 52-55.	2.7	30
20	Recent progress in research on tungsten materials for nuclear fusion applications in Europe. Journal of Nuclear Materials, 2013, 432, 482-500.	2.7	610
21	Quantum-kinetic Theory of Defect-mediated Recombination in Nanostructure-based Photovoltaic Devices. Materials Research Society Symposia Proceedings, 2013, 1493, 91-96.	0.1	8
22	Hydrogen Desorption from Mg Hydride: An Ab Initio Study. Crystals, 2012, 2, 845-860.	2.2	10
23	Numerical Simulation of Hydrogen Dynamics at a Mg-MgH₂Interface. Advances in Science and Technology, 2010, 72, 205-212.	0.2	1
24	Hydrogen Storage in MgH₂ Matrices: An Ab-Initio Study of Mg-MgH₂ Interface. Solid State Phenomena, 2008, 139, 23-28.	0.3	4
25	Metallographic and numerical characterization of MgH2-Mg system. Materials Research Society Symposia Proceedings, 2008, 1127, 1.	0.1	0
26	Recycled noise rectification: An automated Maxwellâ€™s daemon. Physical Review E, 2006, 74, 031121.	2.1	73
27	Randomness in the bouncing ball dynamics. Physica A: Statistical Mechanics and Its Applications, 2005, 351, 142-158.	2.6	23
28	The chattering dynamics of an ideal bouncing ball. Europhysics Letters, 2003, 64, 36-42.	2.0	23
29	Metallographic and Numerical Studies of the Role of Catalyst Particles of MgH₂-Mg System. Defect and Diffusion Forum, 0, 297-301, 263-268.	0.4	1