# Simone Giusepponi

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Recent progress in research on tungsten materials for nuclear fusion applications in Europe. Journal of Nuclear Materials, 2013, 432, 482-500. | 2.7 | 610 |
| 2 | The role of medium size facilities in the HPC ecosystem: the case of the new CRESCO4 cluster integrated in the ENEAGRID infrastructure. , 2014, , . | | 87 |
| 3 | Recycled noise rectification: An automated Maxwellâ€™s daemon. Physical Review E, 2006, 74, 031121. | 2.1 | 73 |
| 4 | A brief summary of the progress on the EFDA tungsten materials program. Journal of Nuclear Materials, 2013, 442, S173-S180. | 2.7 | 69 |
| 5 | 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 |
| 6 | The ideal tensile strength of tungsten and tungsten alloys by first-principles calculations. Journal of Nuclear Materials, 2013, 435, 52-55. | 2.7 | 30 |
| 7 | DFT model of hydrogen desorption from MgH2: The role of iron catalyst. International Journal of Hydrogen Energy, 2013, 38, 15254-15263. | 7.1 | 25 |
| 8 | The chattering dynamics of an ideal bouncing ball. Europhysics Letters, 2003, 64, 36-42. | 2.0 | 23 |
| 9 | Randomness in the bouncing ball dynamics. Physica A: Statistical Mechanics and Its Applications, 2005, 351, 142-158. | 2.6 | 23 |
| 10 | Molecular dynamics of ionic self-diffusion at an MgO grain boundary. Journal of Materials Science, 2015, 50, 2502-2509. | 3.7 | 21 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | Hydrogen Desorption from Mg Hydride: An Ab Initio Study. Crystals, 2012, 2, 845-860. | 2.2 | 10 |
| 15 | 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 |
| 16 | Quantum-kinetic Theory of Defect-mediated Recombination in Nanostructure-based Photovoltaic Devices. Materials Research Society Symposia Proceedings, 2013, 1493, 91-96. | 0.1 | 8 |
| 17 | Ultra-Fast High-PrecisionÂMetallic Nanoparticle Synthesis using Laser-Accelerated Protons. Scientific Reports, 2020, 10, 9570. | 3.3 | 8 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Multiscale in modelling and validation for solar photovoltaics. EPJ Photovoltaics, 2018, 9, 10. | 1.6 | 6 |
| 20 | Hydrogen Storage in MgH<sub>2</sub> Matrices: An Ab-Initio Study of Mg-MgH<sub>2</sub> Interface. Solid State Phenomena, 2008, 139, 23-28. | 0.3 | 4 |
| 21 | 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 |
| 22 | Computational characterization of a-Si:H/c-Si interfaces. Journal of Computational Electronics, 2018, 17, 1457-1469. | 2.5 | 3 |
| 23 | Ab Initio Description of Optoelectronic Properties at Defective Interfaces in Solar Cells. Lecture Notes in Computer Science, 2017, , 111-124. | 1.3 | 2 |
| 24 | Ab Initio Study of Octane Moiety Adsorption on H- and Cl-Functionalized Silicon Nanowires. Nanomaterials, 2022, 12, 1590. | 4.1 | 2 |
| 25 | Metallographic and Numerical Studies of the Role of Catalyst Particles of MgH<sub>2</sub>-Mg System. Defect and Diffusion Forum, 0, 297-301, 263-268. | 0.4 | 1 |
| 26 | Numerical Simulation of Hydrogen Dynamics at a Mg-MgH<sub>2 </sub>Interface. Advances in Science and Technology, 2010, 72, 205-212. | 0.2 | 1 |
| 27 | A Combined Classical Molecular Dynamics Simulations and AB Initio Calculations Approach to Study A-SI:H/C-SI Interfaces. , 2020, , . | | 1 |
| 28 | Metallographic and numerical characterization of MgH2-Mg system. Materials Research Society Symposia Proceedings, 2008, 1127, 1. | 0.1 | 0 |
| 29 | Non-Equilibrium Green Functions Approach to Study Transport Through a-Si:H/c-Si Interfaces. , 2021, , . | | 0 |