

Marton Voros

List of Publications by Year in descending order

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46
papers

1,886
citations

318942

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299063

42
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47
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docs citations

47
times ranked

3916
citing authors

#	ARTICLE	IF	CITATIONS
1	DMRG on Top of Plane-Wave Kohn-Sham Orbitals: A Case Study of Defected Boron Nitride. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 1143-1154.	2.3	16
2	Commensuration effects in layered nanoparticle solids. <i>Physical Review B</i> , 2020, 101, .	1.1	2
3	A Long-Cycle-Life Lithium-CO ₂ Battery with Carbon Neutrality. <i>Advanced Materials</i> , 2019, 31, e1902518.	11.1	138
4	Designing Janus Ligand Shells on PbS Quantum Dots using Ligand-Ligand Cooperativity. <i>ACS Nano</i> , 2019, 13, 3839-3846.	7.3	23
5	New Class of Electrocatalysts Based on 2D Transition Metal Dichalcogenides in Ionic Liquid. <i>Advanced Materials</i> , 2019, 31, e1804453.	11.1	43
6	Excitations Partition into Two Distinct Populations in Bulk Perovskites. <i>Advanced Optical Materials</i> , 2018, 6, 1700975.	3.6	8
7	Emergent Electronic and Dielectric Properties of Interacting Nanoparticles at Finite Temperature. <i>Nano Letters</i> , 2018, 18, 255-261.	4.5	5
8	Enhanced Multiple Exciton Generation in PbS CdS Janus-like Heterostructured Nanocrystals. <i>ACS Nano</i> , 2018, 12, 10084-10094.	7.3	56
9	Strain-Driven Mn-Reorganization in Overlithiated Li _x Mn ₂ O ₄ Epitaxial Thin-Film Electrodes. <i>ACS Applied Energy Materials</i> , 2018, 1, 2526-2535.	2.5	18
10	Optical Absorbance Enhancement in PbS QD/Cinnamate Ligand Complexes. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3425-3433.	2.1	36
11	Jahn-Teller Distortion and Disproportionation in Spinel Lithium Manganese Oxides from First Principles. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
12	Defect States and Charge Transport in Quantum Dot Solids. <i>Chemistry of Materials</i> , 2017, 29, 1255-1262.	3.2	33
13	Characterization of NiFe oxyhydroxide electrocatalysts by integrated electronic structure calculations and spectroelectrochemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3050-3055.	3.3	175
14	Charge Transport in Nanostructured Materials: Implementation and Verification of Constrained Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2581-2590.	2.3	33
15	Tuning colloidal quantum dot band edge positions through solution-phase surface chemistry modification. <i>Nature Communications</i> , 2017, 8, 15257.	5.8	230
16	Performance and Self-Consistency of the Generalized Dielectric Dependent Hybrid Functional. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 3318-3325.	2.3	33
17	Design of Heterogeneous Chalcogenide Nanostructures with Pressure-Tunable Gaps and without Electronic Trap States. <i>Nano Letters</i> , 2017, 17, 2547-2553.	4.5	8
18	Metal-Insulator Transition in Nanoparticle Solids: Insights from Kinetic Monte Carlo Simulations. <i>Scientific Reports</i> , 2017, 7, 7071.	1.6	13

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19	Hydrogen Treatment as a Detergent of Electronic Trap States in Lead Chalcogenide Nanoparticles. <i>Chemistry of Materials</i> , 2017, 29, 2485-2493.	3.2	14
20	Electron-vibration coupling induced renormalization in the photoemission spectrum of diamondoids. <i>Nature Communications</i> , 2016, 7, 11327.	5.8	45
21	Novel silicon phases and nanostructures for solar energy conversion. <i>Applied Physics Reviews</i> , 2016, 3, .	5.5	68
22	Metal-insulator transition in nanoparticle solar cells. , 2016, , .		0
23	Generalization of Dielectric-Dependent Hybrid Functionals to Finite Systems. <i>Physical Review X</i> , 2016, 6, .	2.8	49
24	Colloidal nanoparticles for Intermediate Band solar cells. , 2015, , .		0
25	Surface dangling bonds are a cause of B-type blinking in Si nanoparticles. <i>Nanoscale</i> , 2015, 7, 3737-3744.	2.8	39
26	Colloidal Nanoparticles for Intermediate Band Solar Cells. <i>ACS Nano</i> , 2015, 9, 6882-6890.	7.3	37
27	Electronic and optical properties of pure and modified diamondoids studied by many-body perturbation theory and time-dependent density functional theory. <i>Journal of Chemical Physics</i> , 2014, 141, 064308.	1.2	28
28	Exotic phase Si nanoparticles and Si-ZnS nanocomposites: New paradigms to improve the efficiency of MEG solar cells. , 2014, , .		0
29	Molecular-sized fluorescent nanodiamonds. <i>Nature Nanotechnology</i> , 2014, 9, 54-58.	15.6	229
30	Hierarchical modeling of electron and hole transport in nanoparticle thin films: From ab initio to Monte Carlo. , 2014, , .		0
31	Germanium nanoparticles with non-diamond core structures for solar energy conversion. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9820.	5.2	29
32	Solar Nanocomposites with Complementary Charge Extraction Pathways for Electrons and Holes: Si Embedded in ZnS. <i>Physical Review Letters</i> , 2014, 112, 106801.	2.9	22
33	Ab Initio Optoelectronic Properties of Silicon Nanoparticles: Excitation Energies, Sum Rules, and Tamm-Dancoff Approximation. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 3290-3298.	2.3	22
34	Increasing impact ionization rates in Si nanoparticles through surface engineering: A density functional study. <i>Physical Review B</i> , 2013, 87, .	1.1	24
35	Optically Controlled Switching of the Charge State of a Single Nitrogen-Vacancy Center in Diamond at Cryogenic Temperatures. <i>Physical Review Letters</i> , 2013, 110, 167402.	2.9	179
36	Electronic and Optical Properties of Silicon Carbide Nanotubes and Nanoparticles Studied by Density Functional Theory Calculations: Effect of Doping and Environment. <i>Journal of Computational and Theoretical Nanoscience</i> , 2012, 9, 1906-1940.	0.4	4

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37	Tuning the Optical Gap of Nanometer-Size Diamond Cages by Sulfurization: A Time-Dependent Density Functional Study. <i>Physical Review Letters</i> , 2012, 108, 267401.	2.9	41
38	Identification of defects at the interface between 3C-SiC quantum dots and a SiO ₂ embedding matrix. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 360-367.	0.7	6
39	Time-Dependent Density Functional Calculations on Hydrogenated Silicon Carbide Nanocrystals. <i>Materials Science Forum</i> , 2011, 679-680, 516-519.	0.3	2
40	The Absorption of Diamondoids from Time-dependent Density Functional Calculations. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1370, 23.	0.1	2
41	Influence of Oxygen on the Absorption of Silicon Carbide Nanoparticles. <i>Materials Science Forum</i> , 2011, 679-680, 520-523.	0.3	3
42	The absorption spectrum of hydrogenated silicon carbide nanocrystals from ab initio calculations. <i>Applied Physics Letters</i> , 2010, 96, 051909.	1.5	37
43	Annealing simulations to determine the matrix interface structure of SiC quantum dots embedded in SiO ₂ . <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 407-410.	0.8	2
44	The absorption of oxygenated silicon carbide nanoparticles. <i>Journal of Chemical Physics</i> , 2010, 133, 064705.	1.2	36
45	Optical absorption of diamond nanocrystals from <i>ab initio</i> density-functional calculations. <i>Physical Review B</i> , 2009, 80, .	1.1	56
46	High-Energy Excitations in Silicon Nanoparticles. <i>Nano Letters</i> , 2009, 9, 3780-3785.	4.5	41