

Ivan Stich

List of Publications by Year in descending order

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42

papers

1,279

citations

489802

18

h-index

388640

36

g-index

42

all docs

42

docs citations

42

times ranked

1542

citing authors

#	ARTICLE	IF	CITATIONS
1	Charge State Tristability of Oxygen Adatom on a Rutile TiO ₂ (110) (1 Å–1) Surface Controlled by Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2022, 126, 5064-5069.	1.5	4
2	Electron dynamics of tip-tunable oxygen species on TiO ₂ surface. <i>Communications Materials</i> , 2021, 2, .	2.9	10
3	Structure and Properties of Heavily B and P Codoped Amorphous Silicon Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2021, 125, 23267-23274.	1.5	1
4	Voltage- and Redox State-Triggered Oxygen Adatom Conductance Switch. <i>Journal of Physical Chemistry C</i> , 2021, 125, 26801-26807.	1.5	2
5	Unraveling the Charge States of Au Nanoclusters on an Oxygen-Rich Rutile TiO ₂ (110) Surface and Their Triboelectrification Overturn by nc-AFM and KPFM. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27607-27614.	1.5	4
6	Imaging the surface potential at the steps on the rutile TiO ₂ (110) surface by Kelvin probe force microscopy. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 1228-1236.	1.5	10
7	Tip-Induced Control of Charge and Molecular Bonding of Oxygen Atoms on the Rutile TiO ₂ (110) Surface with Atomic Force Microscopy. <i>ACS Nano</i> , 2019, 13, 6917-6924.	7.3	35
8	Many-Body Quantum MonteCarlo Study of 2D Materials: Cohesion and Band Gap in Single-Layer Phosphorene. <i>Physical Review X</i> , 2019, 9, .	2.8	27
9	Raman Activity of Multilayer Phosphorene under Strain. <i>ACS Omega</i> , 2019, 4, 22418-22425.	1.6	8
10	Subatomic-scale resolution with SPM: Co adatom on p(2 Å–1)Cu(110):O. <i>Nanotechnology</i> , 2019, 30, 095703.	1.3	2
11	Measurement and Manipulation of the Charge State of an Adsorbed Oxygen Adatom on the Rutile TiO ₂ (110)-1Å–1 Surface by nc-AFM and KPFM. <i>Journal of the American Chemical Society</i> , 2018, 140, 15668-15674.	6.6	51
12	Subatomic-scale force vector mapping above a Ge(001) dimer using bimodal atomic forceMicroscopy. <i>Nature Physics</i> , 2017, 13, 663-667.	6.5	19
13	Optical Gaps in Pristine and Heavily Doped Silicon Nanocrystals: DFT versus Quantum Monte Carlo Benchmarks. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 6061-6067.	2.3	11
14	Limitations of Structural Superlubricity: Chemical Bonds versus Contact Size. <i>ACS Nano</i> , 2017, 11, 7642-7647.	7.3	83
15	High-Throughput Study of Compositions and Optical Properties in Heavily Co-Doped Silicon Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27741-27750.	1.5	11
16	Strain control of vibrational properties of few layer phosphorene. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	9
17	Charged vanadium-benzene multidecker clusters: DFT and quantum Monte Carlo study. <i>Journal of Chemical Physics</i> , 2016, 144, 064303.	1.2	4
18	Promoting Atoms into Delocalized Long-Living Magnetically Modified State Using Atomic Force Microscopy. <i>Nano Letters</i> , 2016, 16, 7490-7494.	4.5	2

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19	Quantum Monte Carlo study of one-dimensional transition-metal organometallic cluster systems and their suitability as spin filters. <i>Physical Review B</i> , 2014, 90, .	1.1	13
20	Image formation and contrast inversion in noncontact atomic force microscopy imaging of oxidized Cu(110) surfaces. <i>Physical Review B</i> , 2014, 90, .	1.1	8
21	Vertical atomic manipulation with dynamic atomic-force microscopy without tip change via a multi-step mechanism. <i>Nature Communications</i> , 2014, 5, 4476.	5.8	32
22	Critical Importance of van der Waals Stabilization in Strongly Chemically Bonded Surfaces: Cu(110):O. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 5578-5584.	2.3	10
23	Rigidity of the conductance of an anchored dithioazobenzene optomechanical switch. <i>Physical Review B</i> , 2013, 87, .	1.1	3
24	Quantum Monte Carlo Study of π -Bonded Transition Metal Organometallics: Neutral and Cationic Vanadium-Benzene and Cobalt-Benzene Half Sandwiches. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 390-400.	2.3	21
25	Spin Multiplicity and Symmetry Breaking in Vanadium-Benzene Complexes. <i>Physical Review Letters</i> , 2012, 109, 053001.	2.9	32
26	van der Waals Interaction Energies of Small Fragments of P, As, Sb, S, Se, and Te: Comparison of Complete Basis Set Limit CCSD(T) and DFT with Approximate Dispersion. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 2301-2309.	2.3	6
27	Chemical tip fingerprinting in scanning probe microscopy of an oxidized Cu(110) surface. <i>Physical Review B</i> , 2012, 86, .	1.1	21
28	Disentanglement of triplet and singlet states of azobenzene: direct EELS detection and QMC modeling. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20939.	1.3	20
29	Simulation of frictional behavior of Sb nanoparticles on HOPG: Frictional duality and biduality. <i>Physical Review B</i> , 2011, 84, .	1.1	4
30	Understanding frictional duality and bi-duality: Sb-nanoparticles on HOPG. <i>Nanotechnology</i> , 2011, 22, 085704.	1.3	24
31	Ground and excited electronic states of azobenzene: A quantum Monte Carlo study. <i>Journal of Chemical Physics</i> , 2010, 133, 244301.	1.2	34
32	Optical, Mechanical, and Opto-Mechanical Switching of Anchored Dithioazobenzene Bridges. <i>ChemPhysChem</i> , 2010, 11, 345-348.	1.0	36
33	Switching of functionalized azobenzene suspended between gold tips by mechanochemical, photochemical, and opto-mechanical means. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13922.	1.3	65
34	Nanoengineering with dynamic atomic force microscopy: Lateral interchange of adatoms on a $\text{Cu}(110)$ surface. <i>Physical Review B</i> , 2009, 79, 115408.	1.1	8
35	Computer simulations for the nano-scale. <i>Acta Physica Slovaca</i> , 2007, 57, 1-176.	1.4	9
36	Effect of tip morphology on AFM images. <i>Applied Physics A: Materials Science and Processing</i> , 2001, 72, S63-S66.	1.1	2

#	ARTICLE		IF	CITATIONS
37	Electron correlation effects in ionic hydrogen clusters. International Journal of Quantum Chemistry, 2001, 83, 86-95.		1.0	12
38	Effect of tip morphology on image formation in noncontact atomic force microscopy: $\text{InP}(110)$. Physical Review B, 2001, 63, .		1.1	36
39	First-principles simulation of atomic force microscopy image formation on a GaAs(110) surface: Effect of tip morphology. Physical Review B, 2001, 63, .		1.1	37
40	Silicon Clusters of Intermediate Size: Energetics, Dynamics, and Thermal Effects. Physical Review Letters, 2000, 84, 1479-1482.		2.9	143
41	Structural, bonding, dynamical, and electronic properties of liquid silicon: An ab initiomolecular-dynamics study. Physical Review B, 1991, 44, 4262-4274.		1.1	206
42	Amorphous silicon studied by ab initio molecular dynamics: Preparation, structure, and properties. Physical Review B, 1991, 44, 11092-11104.		1.1	204