

Fernando Sato

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8117519/publications.pdf>

Version: 2024-02-01

69
papers

1,510
citations

361413

20
h-index

330143

37
g-index

69
all docs

69
docs citations

69
times ranked

1746
citing authors

#	ARTICLE	IF	CITATIONS
19	Modeling a Hypothetical Zombie Outbreak Can Save Us from Real-World Monsters. <i>Mathematical Intelligencer</i> , 2019, 41, 72-79.	0.2	0
20	DFT calculations on the structural and electronic properties of vacancy effects in the silicon nanowires. <i>European Physical Journal B</i> , 2019, 92, 1.	1.5	2
21	Building traps for skyrmions by the incorporation of magnetic defects into nanomagnets: Pinning and scattering traps by magnetic properties engineering. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 480, 171-185.	2.3	24
22	Theoretical investigation of various aspects of two dimensional holey boroxine, B_3O_3 . <i>RSC Advances</i> , 2019, 9, 37526-37536.	3.6	21
23	Adsorption and diffusion of alkali atoms (Li, Na, and K) on BeN dual doped graphene. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e25900.	2.0	16
24	Hexagonal boron phosphide as a potential anode nominee for alkali-based batteries: A multi-flavor DFT study. <i>Applied Surface Science</i> , 2019, 471, 134-141.	6.1	49
25	Exploring the effect of substitutional doping on the electronic properties of graphene oxide. <i>Journal of Materials Science</i> , 2018, 53, 7516-7526.	3.7	9
26	Depinning of the transverse domain wall trapped at magnetic impurities patterned in planar nanowires: Control of the wall motion using low-intensity and short-duration current pulses. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 451, 639-646.	2.3	10
27	Theoretical evaluation of chemical substitutions along the main chain of poly(3-hexylthiophenylene vinylene) for solar cell applications. <i>Polymer International</i> , 2018, 67, 197-203.	3.1	2
28	Adsorption of Sodium on Doped Graphene: A vdW-DF Study. <i>Current Graphene Science</i> , 2018, 2, 35-44.	0.5	7
29	Unusual Enhancement of the Adsorption Energies of Sodium and Potassium in Sulfur-Nitrogen and Silicon-Boron Codoped Graphene. <i>ACS Omega</i> , 2018, 3, 15821-15828.	3.5	15
30	Hydrogenation and Fluorination of 2D Boron Phosphide and Boron Arsenide: A Density Functional Theory Investigation. <i>ACS Omega</i> , 2018, 3, 16416-16423.	3.5	38
31	Effects of Mechanical Stretching on the Properties of Conjugated Polymers: Case Study for MEH-PPV and P3HT Oligomers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 1413-1426.	2.1	11
32	Modeling surface energy in porous metallic nanostructures. <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	2
33	The role of sulfate in the chemical synthesis of graphene oxide. <i>Materials Chemistry and Physics</i> , 2018, 215, 203-210.	4.0	12
34	First-principles study of dual-doped graphene: towards promising anode materials for Li/Na-ion batteries. <i>New Journal of Chemistry</i> , 2018, 42, 10842-10851.	2.8	44
35	Coupled cluster and density functional investigation of the neutral sodium-benzene and potassium-benzene complexes. <i>Chemical Physics Letters</i> , 2018, 706, 343-347.	2.6	11
36	Triple-Doped Monolayer Graphene with Boron, Nitrogen, Aluminum, Silicon, Phosphorus, and Sulfur. <i>ChemPhysChem</i> , 2017, 18, 1864-1873.	2.1	49

#	ARTICLE	IF	CITATIONS
37	Reduced graphene oxide prepared at low temperature thermal treatment as transparent conductors for organic electronic applications. <i>Organic Electronics</i> , 2017, 49, 165-173.	2.6	31
38	Rectangular and hexagonal doping of graphene with B, N, and O: a DFT study. <i>RSC Advances</i> , 2017, 7, 16064-16068.	3.6	26
39	Study on the coherence degree of magnetization reversal in Permalloy single-domain nano-ellipses. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 426, 396-404.	2.3	2
40	Beryllium doped graphene as an efficient anode material for lithium-ion batteries with significantly huge capacity: A DFT study. <i>Applied Materials Today</i> , 2017, 9, 333-340.	4.3	84
41	Structural, electronic, and magnetic properties of non-planar doping of BeO in graphene: a DFT study. <i>New Journal of Chemistry</i> , 2017, 41, 10780-10789.	2.8	7
42	Decreasing the size limit for a stable magnetic vortex in modified permalloy nanodiscs. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 443, 252-260.	2.3	5
43	Triple-Doped Monolayer Graphene with Boron, Nitrogen, Aluminum, Silicon, Phosphorus, and Sulfur. <i>ChemPhysChem</i> , 2017, 18, 1854-1854.	2.1	3
44	Vibrational spectroscopy for milk fat quantification: line shape analysis of the Raman and infrared spectra. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 692-698.	2.5	19
45	Enhancement of nonlinear optical properties of graphene oxide-based structures: push-pull models. <i>RSC Advances</i> , 2016, 6, 94437-94450.	3.6	15
46	Structural and vibrational study of graphene oxide via coronene based models: theoretical and experimental results. <i>Materials Research Express</i> , 2016, 3, 055020.	1.6	18
47	Magnetization reversal of the transverse domain wall confined between two clusters of magnetic impurities in a ferromagnetic planar nanowire. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 419, 37-42.	2.3	10
48	Theoretical study of nonlinear optical properties of cobalt bis (dicarbollide) derivatives: the effect of substituents. <i>Theoretical Chemistry Accounts</i> , 2015, 134, 1.	1.4	4
49	Position of the transverse domain wall controlled by magnetic impurities in rectangular magnetic nanowires. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	7
50	Substituent effects on molecular properties of dicarba-closo-dodecarborane derivatives. <i>Journal of Molecular Modeling</i> , 2014, 20, 2275.	1.8	5
51	Dynamics of the vortex core in magnetic nanodisks with a ring of magnetic impurities. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	24
52	The influence of magnetic impurities in the vortex core dynamics in magnetic nano-disks. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 3083-3086.	2.3	15
53	van der Waals potential barrier for cobaltocene encapsulation into single-walled carbon nanotubes: classical molecular dynamics and ab initio study. <i>Molecular Simulation</i> , 2011, 37, 746-751.	2.0	1
54	The First Molecular Wheel: A Theoretical Investigation. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1286, 44.	0.1	0

#	ARTICLE	IF	CITATIONS
55	Adsorption configuration effects on the surface diffusion of large organic molecules: The case of Violet Lander. <i>Journal of Chemical Physics</i> , 2010, 133, 224702.	3.0	3
56	Temperature effects on the atomic arrangement and conductance of atomic-size gold nanowires generated by mechanical stretching. <i>Nanotechnology</i> , 2010, 21, 485702.	2.6	18
57	Observation of the smallest metal nanotube with a square cross-section. <i>Nature Nanotechnology</i> , 2009, 4, 149-152.	31.5	50
58	New Insights on the Growth of Anisotropic Nanoparticles from Total Energy Calculations. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11976-11979.	3.1	4
59	Defects in Graphene-Based Twisted Nanoribbons: Structural, Electronic, and Optical Properties. <i>Langmuir</i> , 2009, 25, 4751-4759.	3.5	26
60	C ₆₀ -derived nanobaskets: stability, vibrational signatures, and molecular trapping. <i>Nanotechnology</i> , 2009, 20, 395701.	2.6	8
61	Designing conducting polymers using bioinspired ant algorithms. <i>Chemical Physics Letters</i> , 2008, 453, 290-295.	2.6	12
62	Möbius and twisted graphene nanoribbons: Stability, geometry, and electronic properties. <i>Journal of Chemical Physics</i> , 2008, 128, 164719.	3.0	54
63	Size Limit of Defect Formation in Pyramidal Pt Nanocontacts. <i>Physical Review Letters</i> , 2007, 99, 255501.	7.8	16
64	Experimental realization of suspended atomic chains composed of different atomic species. <i>Nature Nanotechnology</i> , 2006, 1, 182-185.	31.5	95
65	Computer simulations of gold nanowire formation: the role of outlayer atoms. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 81, 1527-1531.	2.3	31
66	Prediction of Ordered Phases of Encapsulated C ₆₀ , C ₇₀ , and C ₇₈ Inside Carbon Nanotubes. <i>Nano Letters</i> , 2005, 5, 349-355.	9.1	85
67	Lock-and-key effect in the surface diffusion of large organic molecules probed by STM. <i>Nature Materials</i> , 2004, 3, 779-782.	27.5	116
68	On the Structural and Stability Features of Linear Atomic Suspended Chains Formed from Gold Nanowires Stretching. <i>Nano Letters</i> , 2004, 4, 1187-1191.	9.1	106
69	Indication of Unusual Pentagonal Structures in Atomic-Size Cu Nanowires. <i>Physical Review Letters</i> , 2004, 93, 126103.	7.8	105