

Ranjit Pati

List of Publications by Year in descending order

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51
papers

1,337
citations

394421

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345221

36
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docs citations

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times ranked

1743
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric field control of magnetism at the $\hat{\Gamma}^3$ -FeSi ₂ /Si(001) interface. <i>Journal of Materials Science</i> , 2021, 56, 3804-3813.	3.7	2
2	Cr-Doped Ge-Core/Si-Shell Nanowire: An Antiferromagnetic Semiconductor. <i>Nano Letters</i> , 2021, 21, 1856-1862.	9.1	4
3	Origin of Magnetism in $\hat{\Gamma}^3$ -FeSi ₂ /Si(111) Nanostructures. <i>Nanomaterials</i> , 2021, 11, 849.	4.1	6
4	Emergence of Ferromagnetism Due to Spontaneous Symmetry Breaking in a Twisted Bilayer Graphene Nanoflex. <i>Nano Letters</i> , 2021, 21, 7548-7554.	9.1	4
5	PbTe(core)/PbS(shell) Nanowire: Electronic Structure, Thermodynamic Stability, and Mechanical and Optical Properties. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22660-22667.	3.1	5
6	Spin filtering with Mn-doped Ge-core/Si-shell nanowires. <i>Nanoscale Advances</i> , 2020, 2, 1843-1849.	4.6	4
7	Oscillatory Tunnel Magnetoresistance in a Carbon Nanotube Based Three-Terminal Magnetic Tunnel Junction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 29062-29068.	3.1	3
8	New Near-Infrared Fluorescent Probes with Single-Photon Anti-Stokes-Shift Fluorescence for Sensitive Determination of pH Variances in Lysosomes with a Double-Checked Capability. <i>ACS Applied Bio Materials</i> , 2018, 1, 549-560.	4.6	35
9	Catching the electron in action in real space inside a Ge $\hat{\Gamma}^3$ -Si core $\hat{\Gamma}^3$ -shell nanowire transistor. <i>Nanoscale</i> , 2017, 9, 13425-13431.	5.6	9
10	Near-Infrared Fluorescent Probes with Large Stokes Shifts for Sensing Zn(II) Ions in Living Cells. <i>ACS Sensors</i> , 2016, 1, 1408-1415.	7.8	56
11	Unlocking the Origin of Superior Performance of a Si $\hat{\Gamma}^3$ -Ge Core $\hat{\Gamma}^3$ -Shell Nanowire Quantum Dot Field Effect Transistor. <i>Nano Letters</i> , 2016, 16, 3995-4000.	9.1	14
12	BODIPY-Based Fluorescent Probes for Sensing Protein Surface-Hydrophobicity. <i>Scientific Reports</i> , 2015, 5, 18337.	3.3	73
13	Boron Nitride Nanotubes for Spintronics. <i>Sensors</i> , 2014, 14, 17655-17685.	3.8	47
14	Giant amplification of tunnel magnetoresistance in a molecular junction: Molecular spin-valve transistor. <i>Applied Physics Letters</i> , 2014, 104, 162404.	3.3	16
15	Electrical tuning of spin current in a boron nitride nanotube quantum dot. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7996-8002.	2.8	9
16	Fluorinated Boron Nitride Nanotube Quantum Dots: A Spin Filter. <i>Journal of the American Chemical Society</i> , 2014, 136, 11494-11498.	13.7	26
17	Nuclear Quadrupole Interactions in Nuclear Quadrupole Resonance Detection of Energetic and Controlled Materials: Theoretical Study. <i>Applied Magnetic Resonance</i> , 2012, 43, 591-617.	1.2	2
18	Switching of Conductance in a Molecular Wire: Role of Junction Geometry, Interfacial Distance, and Conformational Change. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17268-17273.	3.1	27

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19	What Determines the Sign Reversal of Magnetoresistance in a Molecular Tunnel Junction?. ACS Nano, 2012, 6, 3580-3588.	14.6	54
20	On Cellular Automata rules of molecular arrays. Natural Computing, 2012, 11, 311-321.	3.0	6
21	Charge Transport in Strongly Coupled Molecular Junctions: In-Phase and Out-of-Phase Contribution to Electron Tunneling. Journal of Physical Chemistry C, 2011, 115, 17564-17573.	3.1	8
22	Codoping in a single molecular junction from first principles. Physical Review B, 2011, 83, .	3.2	7
23	Mechanism behind the switching of current induced by a gate field in a semiconducting nanowire junction. Physical Review B, 2011, 84, .	3.2	8
24	Massively parallel computing on an organic molecular layer. Nature Physics, 2010, 6, 369-375.	16.7	79
25	First-principles study of the variation of electron transport in a single molecular junction with the length of the molecular wire. Physical Review B, 2010, 82, .	3.2	7
26	Molecular Implementations of Cellular Automata. Lecture Notes in Computer Science, 2010, , 650-659.	1.3	5
27	Controlling interlayer exchange coupling in one-dimensional Fe/Pt multilayered nanowire. Physical Review B, 2009, 79, .	3.2	2
28	Quantum confinement and phase transition in PbS nanowire: A first principles study. Chemical Physics Letters, 2009, 479, 244-247.	2.6	7
29	Gate field induced electronic current modulation in a single wall boron nitride nanotube: Molecular scale field effect transistor. Chemical Physics Letters, 2009, 482, 312-315.	2.6	4
30	Origin of Negative Differential Resistance in a Strongly Coupled Single Molecule-Metal Junction Device. Physical Review Letters, 2008, 100, 246801.	7.8	82
31	Magnetic properties of one-dimensional Ni/Cu and Ni/Al multilayered nanowires: Role of nonmagnetic spacers. Physical Review B, 2008, 77, .	3.2	14
32	Self-consistent calculations of strain-induced band gap changes in semiconducting nanotubes. Physical Review B, 2008, 78, .	3.2	32
33	Tuning the ferromagnetism of one-dimensional Fe ²⁺ /Pt ²⁺ multilayer barcode nanowires via the barcode layer effect. Physical Review B, 2007, 76, .	3.2	18
34	Theoretical study of electron transport in boron nanotubes. Applied Physics Letters, 2006, 88, 212111.	3.3	41
35	Room-Temperature Ferromagnetism in Doped Face-Centered Cubic Fe Nanoparticles. Small, 2006, 2, 804-809.	10.0	41
36	First-principles study of the stability and electronic properties of sheets and nanotubes of elemental boron. Chemical Physics Letters, 2006, 418, 549-554.	2.6	65

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37	Spin-polarized electron transport of a self-assembled organic monolayer on a Ni(111) substrate: An organic spin switch. <i>Physical Review B</i> , 2006, 73, .	3.2	35
38	Ab initio quantum chemical study of electron transfer in carboranes. <i>Chemical Physics Letters</i> , 2005, 406, 483-488.	2.6	16
39	A theoretical study of electronic and vibrational properties of neutral, cationic, and anionic B ₂₄ clusters. <i>International Journal of Quantum Chemistry</i> , 2005, 103, 866-874.	2.0	28
40	Theoretical study of electrical transport in a fullerene-doped semiconducting carbon nanotubes. <i>Journal of Applied Physics</i> , 2004, 95, 694-697.	2.5	15
41	Current switching by conformational change in a π - π molecular wire. <i>Physical Review B</i> , 2004, 69, .	3.2	101
42	First-principles calculations of spin-polarized electron transport in a molecular wire: Molecular spin valve. <i>Physical Review B</i> , 2003, 68, .	3.2	103
43	Time-varying response of molecular electron devices: A fundamental requirement for organic nanoelectronics. <i>Applied Physics Letters</i> , 2002, 81, 1872-1874.	3.3	4
44	Effect of H ₂ O adsorption on electron transport in a carbon nanotube. <i>Applied Physics Letters</i> , 2002, 81, 2638-2640.	3.3	147
45	Length-dependence of intramolecular electron transfer in π -bonded rigid molecular rods: an ab initio molecular orbital study. <i>Chemical Physics Letters</i> , 2002, 351, 302-310.	2.6	18
46	Ab initio Hartree-Fock study of electron transfer in organic molecules. <i>Journal of Chemical Physics</i> , 2001, 115, 1703-1715.	3.0	30
47	Theory of Electronic Structure and Nuclear Quadrupole Interactions in Heroin. <i>Journal of Physical Chemistry A</i> , 1998, 102, 3209-3214.	2.5	3
48	Electronic Structure Investigation and Nuclear Quadrupole Interactions in \hat{I}^2 -HMX. <i>Journal of Physical Chemistry A</i> , 1997, 101, 8302-8308.	2.5	10
49	Theoretical Investigation of Electronic Structure and Nuclear Quadrupole Interactions in Cocaine Free Base. <i>Journal of Physical Chemistry A</i> , 1997, 101, 6101-6106.	2.5	4
50	An Advanced Architecture of a Massive Parallel Processing Nano Brain Operating 100 Billion Molecular Neurons Simultaneously. , 0, , 1588-1620.		0
51	An Advanced Architecture of a Massive Parallel Processing Nano Brain Operating 100 Billion Molecular Neurons Simultaneously. , 0, , 43-73.		1