

# Ranjit Pati

## List of Publications by Year in descending order

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51  
papers

1,337  
citations

394421

19  
h-index

345221

36  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1743  
citing authors



#	ARTICLE	IF	CITATIONS
19	Fluorinated Boron Nitride Nanotube Quantum Dots: A Spin Filter. <i>Journal of the American Chemical Society</i> , 2014, 136, 11494-11498.	13.7	26
20	Length-dependence of intramolecular electron transfer in $\pi$ -bonded rigid molecular rods: an ab initio molecular orbital study. <i>Chemical Physics Letters</i> , 2002, 351, 302-310.	2.6	18
21	Tuning the ferromagnetism of one-dimensional Fe $\sim$ Pt $\sim$ Fe multilayer barcode nanowires via the barcode layer effect. <i>Physical Review B</i> , 2007, 76, .	3.2	18
22	Ab initio quantum chemical study of electron transfer in carboranes. <i>Chemical Physics Letters</i> , 2005, 406, 483-488.	2.6	16
23	Giant amplification of tunnel magnetoresistance in a molecular junction: Molecular spin-valve transistor. <i>Applied Physics Letters</i> , 2014, 104, 162404.	3.3	16
24	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
25	Magnetic properties of one-dimensional Ni/Cu and Ni/Al multilayered nanowires: Role of nonmagnetic spacers. <i>Physical Review B</i> , 2008, 77, .	3.2	14
26	Unlocking the Origin of Superior Performance of a Si $\sim$ Ge Core $\sim$ Shell Nanowire Quantum Dot Field Effect Transistor. <i>Nano Letters</i> , 2016, 16, 3995-4000.	9.1	14
27	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
28	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
29	Catching the electron in action in real space inside a Ge $\sim$ Si core $\sim$ shell nanowire transistor. <i>Nanoscale</i> , 2017, 9, 13425-13431.	5.6	9
30	Charge Transport in Strongly Coupled Molecular Junctions: $\pi$ -In-Phase $\sim$ and $\pi$ -Out-of-Phase $\sim$ Contribution to Electron Tunneling. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17564-17573.	3.1	8
31	Mechanism behind the switching of current induced by a gate field in a semiconducting nanowire junction. <i>Physical Review B</i> , 2011, 84, .	3.2	8
32	Quantum confinement and phase transition in PbS nanowire: A first principles study. <i>Chemical Physics Letters</i> , 2009, 479, 244-247.	2.6	7
33	First-principles study of the variation of electron transport in a single molecular junction with the length of the molecular wire. <i>Physical Review B</i> , 2010, 82, .	3.2	7
34	Codoping in a single molecular junction from first principles. <i>Physical Review B</i> , 2011, 83, .	3.2	7
35	On Cellular Automata rules of molecular arrays. <i>Natural Computing</i> , 2012, 11, 311-321.	3.0	6
36	Origin of Magnetism in $\hat{I}^3$ -FeSi $_2$ /Si(111) Nanostructures. <i>Nanomaterials</i> , 2021, 11, 849.	4.1	6

#	ARTICLE	IF	CITATIONS
37	Molecular Implementations of Cellular Automata. Lecture Notes in Computer Science, 2010, , 650-659.	1.3	5
38	PbTe(core)/PbS(shell) Nanowire: Electronic Structure, Thermodynamic Stability, and Mechanical and Optical Properties. Journal of Physical Chemistry C, 2021, 125, 22660-22667.	3.1	5
39	Theoretical Investigation of Electronic Structure and Nuclear Quadrupole Interactions in Cocaine Free Base. Journal of Physical Chemistry A, 1997, 101, 6101-6106.	2.5	4
40	Time-varying response of molecular electron devices: A fundamental requirement for organic nanoelectronics. Applied Physics Letters, 2002, 81, 1872-1874.	3.3	4
41	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
42	Spin filtering with Mn-doped Ge-core/Si-shell nanowires. Nanoscale Advances, 2020, 2, 1843-1849.	4.6	4
43	Cr-Doped Ge-Core/Si-Shell Nanowire: An Antiferromagnetic Semiconductor. Nano Letters, 2021, 21, 1856-1862.	9.1	4
44	Emergence of Ferromagnetism Due to Spontaneous Symmetry Breaking in a Twisted Bilayer Graphene Nanoflex. Nano Letters, 2021, 21, 7548-7554.	9.1	4
45	Theory of Electronic Structure and Nuclear Quadrupole Interactions in Heroin. Journal of Physical Chemistry A, 1998, 102, 3209-3214.	2.5	3
46	Oscillatory Tunnel Magnetoresistance in a Carbon Nanotube Based Three-Terminal Magnetic Tunnel Junction. Journal of Physical Chemistry C, 2018, 122, 29062-29068.	3.1	3
47	Controlling interlayer exchange coupling in one-dimensional Fe/Pt multilayered nanowire. Physical Review B, 2009, 79, .	3.2	2
48	Nuclear Quadrupole Interactions in Nuclear Quadrupole Resonance Detection of Energetic and Controlled Materials: Theoretical Study. Applied Magnetic Resonance, 2012, 43, 591-617.	1.2	2
49	Electric field control of magnetism at the $\hat{1}^3$ -FeSi <sub>2</sub> /Si(001) interface. Journal of Materials Science, 2021, 56, 3804-3813.	3.7	2
50	An Advanced Architecture of a Massive Parallel Processing Nano Brain Operating 100 Billion Molecular Neurons Simultaneously. , 0, , 43-73.		1
51	An Advanced Architecture of a Massive Parallel Processing Nano Brain Operating 100 Billion Molecular Neurons Simultaneously. , 0, , 1588-1620.		0