

Jay A Gupta

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

28

papers

5,335

citations

13

h-index

32

g-index

32

ext. papers

5,964

ext. citations

11.2

avg, IF

4.93

L-index

#	Paper	IF	Citations
28	Progress, challenges, and opportunities in two-dimensional materials beyond graphene. <i>ACS Nano</i> , 2013 , 7, 2898-926	16.7	3414
27	Single-atom spin-flip spectroscopy. <i>Science</i> , 2004 , 306, 466-9	33.3	542
26	Molecule cascades. <i>Science</i> , 2002 , 298, 1381-7	33.3	399
25	Room Temperature Intrinsic Ferromagnetism in Epitaxial Manganese Selenide Films in the Monolayer Limit. <i>Nano Letters</i> , 2018 , 18, 3125-3131	11.5	353
24	Ultrafast manipulation of electron spin coherence. <i>Science</i> , 2001 , 292, 2458-61	33.3	222
23	A single molecule Kondo switch: multistability of tetracyanoethylene on Cu(111). <i>Nano Letters</i> , 2010 , 10, 4175-80	11.5	69
22	Tunable field control over the binding energy of single dopants by a charged vacancy in GaAs. <i>Science</i> , 2010 , 330, 1807-10	33.3	66
21	Optical, electrical and magnetic manipulation of spins in semiconductors. <i>Semiconductor Science and Technology</i> , 2002 , 17, 275-284	1.8	53
20	Tunneling spectroscopy of ultrathin insulating films: CuN on Cu(100). <i>Applied Physics Letters</i> , 2007 , 91, 253106	3.4	43
19	Zero-dimensional excitonic confinement in locally strained Zn _{1-x} CdxSe quantum wells. <i>Applied Physics Letters</i> , 1997 , 71, 1213-1215	3.4	42
18	Tunable control over the ionization state of single Mn acceptors in GaAs with defect-induced band bending. <i>Nano Letters</i> , 2011 , 11, 2004-7	11.5	29
17	PHYSICS. Painting magnetism on a canvas of graphene. <i>Science</i> , 2016 , 352, 415-6	33.3	19
16	Atomic-scale engineering of the electrostatic landscape of semiconductor surfaces. <i>Nano Letters</i> , 2013 , 13, 2418-22	11.5	14
15	Crystalline hydrogenation of graphene by scanning tunneling microscope tip-induced field dissociation of H ₂ . <i>Carbon</i> , 2017 , 124, 97-104	10.4	11
14	Optical spectroscopy of III-VI (magnetic) semiconductor quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 1998 , 2, 854-857	3	9
13	Building blocks for studies of nanoscale magnetism: adsorbates on ultrathin insulating Cu ₂ N. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 394009	1.8	7
12	Uniform large-area growth of nanotemplated high-quality monolayer MoS ₂ . <i>Applied Physics Letters</i> , 2017 , 110, 263103	3.4	6

11	Synthesis, Magnetic Properties, and Electronic Structure of Magnetic Topological Insulator MnBiSe. <i>Nano Letters</i> , 2021 , 21, 5083-5090	11.5	6
10	Perspectives on deterministic control of quantum point defects by scanned probes. <i>Nanophotonics</i> , 2019 , 8, 2033-2040	6.3	6
9	STM and DFT studies of CO ₂ adsorption on O-Cu(100) surface. <i>Surface Science</i> , 2019 , 679, 50-55	1.8	6
8	Scalable Synthesis of Monolayer Hexagonal Boron Nitride on Graphene with Giant Bandgap Renormalization.. <i>Advanced Materials</i> , 2022 , e2201387	24	5
7	Influence of the local environment on Mn acceptors in GaAs. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 154202	1.8	4
6	Topological Dirac semimetal Na ₃ Bi films in the ultrathin limit via alternating layer molecular beam epitaxy. <i>APL Materials</i> , 2018 , 6, 086103	5.7	3
5	Determining Surface Terminations and Chirality of Noncentrosymmetric FeGe Thin Films via Scanning Tunneling Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 9896-9901	9.5	2
4	Tuning the electronic states of individual Co acceptors in GaAs. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013 , 31, 04D102	1.3	2
3	Chemical migration and dipole formation at van der Waals interfaces between magnetic transition metal chalcogenides and topological insulators. <i>Physical Review Materials</i> , 2020 , 4,	3.2	2
2	Atomic-scale visualization of topological spin textures in the chiral magnet MnGe.. <i>Science</i> , 2021 , 374, 1484-1487	33.3	1
1	Growth of the intrinsic superlattice material Bi ₄ Se ₃ by DC magnetron sputtering: Layered to faceted growth. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 063412	3.9	0