

Jay A Gupta

List of Publications by Year in descending order

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32
papers

6,456
citations

567281

15
h-index

414414

32
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32
all docs

32
docs citations

32
times ranked

11459
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress, Challenges, and Opportunities in Two-Dimensional Materials Beyond Graphene. ACS Nano, 2013, 7, 2898-2926.	14.6	4,062
2	Single-Atom Spin-Flip Spectroscopy. Science, 2004, 306, 466-469.	12.6	600
3	Room Temperature Intrinsic Ferromagnetism in Epitaxial Manganese Selenide Films in the Monolayer Limit. Nano Letters, 2018, 18, 3125-3131.	9.1	567
4	Molecule Cascades. Science, 2002, 298, 1381-1387.	12.6	444
5	Ultrafast Manipulation of Electron Spin Coherence. Science, 2001, 292, 2458-2461.	12.6	255
6	A Single Molecule Kondo Switch: Multistability of Tetracyanoethylene on Cu(111). Nano Letters, 2010, 10, 4175-4180.	9.1	77
7	Tunable Field Control Over the Binding Energy of Single Dopants by a Charged Vacancy in GaAs. Science, 2010, 330, 1807-1810.	12.6	72
8	Optical, electrical and magnetic manipulation of spins in semiconductors. Semiconductor Science and Technology, 2002, 17, 275-284.	2.0	55
9	Tunneling spectroscopy of ultrathin insulating films: CuN on Cu(100). Applied Physics Letters, 2007, 91, .	3.3	51
10	Zero-dimensional excitonic confinement in locally strained Zn _{1-x} Cd _x Se quantum wells. Applied Physics Letters, 1997, 71, 1213-1215.	3.3	44
11	Tunable Control over the Ionization State of Single Mn Acceptors in GaAs with Defect-Induced Band Bending. Nano Letters, 2011, 11, 2004-2007.	9.1	33
12	Synthesis, Magnetic Properties, and Electronic Structure of Magnetic Topological Insulator MnBi ₂ Se ₄ . Nano Letters, 2021, 21, 5083-5090.	9.1	28
13	Painting magnetism on a canvas of graphene. Science, 2016, 352, 415-416.	12.6	24
14	Scalable Synthesis of Monolayer Hexagonal Boron Nitride on Graphene with Giant Bandgap Renormalization. Advanced Materials, 2022, 34, e2201387.	21.0	22
15	Atomic-Scale Engineering of the Electrostatic Landscape of Semiconductor Surfaces. Nano Letters, 2013, 13, 2418-2422.	9.1	15
16	STM and DFT studies of CO ₂ adsorption on O-Cu(100) surface. Surface Science, 2019, 679, 50-55.	1.9	15
17	Atomic-scale visualization of topological spin textures in the chiral magnet MnGe. Science, 2021, 374, 1484-1487.	12.6	15
18	Crystalline hydrogenation of graphene by scanning tunneling microscope tip-induced field dissociation of H ₂ . Carbon, 2017, 124, 97-104.	10.3	13

#	ARTICLE	IF	CITATIONS
19	Optical spectroscopy of II-VI (magnetic) semiconductor quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 1998, 2, 854-857.	2.7	9
20	Uniform large-area growth of nanotemplated high-quality monolayer MoS ₂ . <i>Applied Physics Letters</i> , 2017, 110, 263103.	3.3	8
21	Perspectives on deterministic control of quantum point defects by scanned probes. <i>Nanophotonics</i> , 2019, 8, 2033-2040.	6.0	8
22	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
23	Influence of the local environment on Mn acceptors in GaAs. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 154202.	1.8	5
24	Topological Dirac semimetal Na ₃ Bi films in the ultrathin limit via alternating layer molecular beam epitaxy. <i>APL Materials</i> , 2018, 6, 086103.	5.1	4
25	Determining Surface Terminations and Chirality of Noncentrosymmetric FeGe Thin Films via Scanning Tunneling Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9896-9901.	8.0	4
26	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, .	2.4	4
27	Scanning tunneling microscopy study of the antiferromagnetic topological insulator MnBi ₂ Se ₄ . <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 143, 115391.	2.7	4
28	Tuning the electronic states of individual Co acceptors in GaAs. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013, 31, .	1.2	3
29	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, .	2.1	3
30	Coherent growth and characterization of van der Waals 1×1 T ₂ VSe ₂ layers on GaAs(111)B using molecular beam epitaxy. <i>Physical Review Materials</i> , 2020, 4, .	2.4	2
31	Kinetically Controlled Epitaxial Growth of Fe ₃ GeTe ₂ van der Waals Ferromagnetic Films. <i>ACS Applied Electronic Materials</i> , 2022, 4, 3190-3197.	4.3	2
32	Tunable tunnel barriers in a semiconductor via ionization of individual atoms. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 275002.	1.8	1