Jay A Gupta

List of Publications by Year in Descending Order

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	Scalable Synthesis of Monolayer Hexagonal Boron Nitride on Graphene with Giant Bandgap Renormalization.. *Advanced Materials*, **2022**, e2201387	24	5
27	Atomic-scale visualization of topological spin textures in the chiral magnet MnGe.. *Science*, **2021**, 374, 1484-1487	33.3	1
26	Synthesis, Magnetic Properties, and Electronic Structure of Magnetic Topological Insulator MnBiSe. *Nano Letters*, **2021**, 21, 5083-5090	11.5	6
25	Growth of the intrinsic superlattice material Bi4Se3 by DC magnetron sputtering: Layered to faceted growth. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2021**, 39, 063412	2.9	0
24	Determining Surface Terminations and Chirality of Noncentrosymmetric FeGe Thin Films via Scanning Tunneling Microscopy. *ACS Applied Materials & Interfaces*, **2020**, 12, 9896-9901	9.5	2
23	Chemical migration and dipole formation at van der Waals interfaces between magnetic transition metal chalcogenides and topological insulators. *Physical Review Materials*, **2020**, 4,	3.2	2
22	Perspectives on deterministic control of quantum point defects by scanned probes. *Nanophotonics*, **2019**, 8, 2033-2040	6.3	6
21	STM and DFT studies of CO2 adsorption on O-Cu(100) surface. *Surface Science*, **2019**, 679, 50-55	1.8	6
20	Room Temperature Intrinsic Ferromagnetism in Epitaxial Manganese Selenide Films in the Monolayer Limit. *Nano Letters*, **2018**, 18, 3125-3131	11.5	353
19	Topological Dirac semimetal Na3Bi films in the ultrathin limit via alternating layer molecular beam epitaxy. *APL Materials*, **2018**, 6, 086103	5.7	3
18	Crystalline hydrogenation of graphene by scanning tunneling microscope tip-induced field dissociation of H2. *Carbon*, **2017**, 124, 97-104	10.4	11
17	Uniform large-area growth of nanotemplated high-quality monolayer MoS2. *Applied Physics Letters*, **2017**, 110, 263103	3.4	6
16	PHYSICS. Painting magnetism on a canvas of graphene. *Science*, **2016**, 352, 415-6	33.3	19
15	Influence of the local environment on Mn acceptors in GaAs. *Journal of Physics Condensed Matter*, **2015**, 27, 154202	1.8	4
14	Building blocks for studies of nanoscale magnetism: adsorbates on ultrathin insulating Cu2N. *Journal of Physics Condensed Matter*, **2014**, 26, 394009	1.8	7
13	Atomic-scale engineering of the electrostatic landscape of semiconductor surfaces. *Nano Letters*, **2013**, 13, 2418-22	11.5	14
12	Progress, challenges, and opportunities in two-dimensional materials beyond graphene. *ACS Nano*, **2013**, 7, 2898-926	16.7	3414

List of Publications

11	Tuning the electronic states of individual Co acceptors in GaAs. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2013**, 31, 04D102	1.3	2
10	Tunable control over the ionization state of single Mn acceptors in GaAs with defect-induced band bending. *Nano Letters*, **2011**, 11, 2004-7	11.5	29
9	Tunable field control over the binding energy of single dopants by a charged vacancy in GaAs. *Science*, **2010**, 330, 1807-10	33.3	66
8	A single molecule Kondo switch: multistability of tetracyanoethylene on Cu(111). *Nano Letters*, **2010**, 10, 4175-80	11.5	69
7	Tunneling spectroscopy of ultrathin insulating films: CuN on Cu(100). *Applied Physics Letters*, **2007**, 91, 253106	3.4	43
6	Single-atom spin-flip spectroscopy. *Science*, **2004**, 306, 466-9	33.3	542
5	Optical, electrical and magnetic manipulation of spins in semiconductors. *Semiconductor Science and Technology*, **2002**, 17, 275-284	1.8	53
4	Molecule cascades. *Science*, **2002**, 298, 1381-7	33.3	399
3	Ultrafast manipulation of electron spin coherence. *Science*, **2001**, 292, 2458-61	33.3	222
2	Optical spectroscopy of II□VI (magnetic) semiconductor quantum dots. *Physica E: Low-Dimensional Systems and Nanostructures*, **1998**, 2, 854-857	3	9
1	Zero-dimensional excitonic confinement in locally strained Zn1□CdxSe quantum wells. *Applied Physics Letters*, **1997**, 71, 1213-1215	3.4	42