

Gopinadhan Kalon

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60 papers	3,836 citations	28 h-index	61 g-index
63 ext. papers	4,491 ext. citations	8.4 avg, IF	4.99 L-index

#	Paper	IF	Citations
60	Tunable sieving of ions using graphene oxide membranes. <i>Nature Nanotechnology</i> , 2017 , 12, 546-550	28.7	960
59	Surface-energy engineering of graphene. <i>Langmuir</i> , 2010 , 26, 3798-802	4	383
58	Molecular transport through capillaries made with atomic-scale precision. <i>Nature</i> , 2016 , 538, 222-225	50.4	325
57	Size effect in ion transport through angstrom-scale slits. <i>Science</i> , 2017 , 358, 511-513	33.3	246
56	Magnetism in MoS2 induced by proton irradiation. <i>Applied Physics Letters</i> , 2012 , 101, 102103	3.4	170
55	Complete steric exclusion of ions and proton transport through confined monolayer water. <i>Science</i> , 2019 , 363, 145-148	33.3	131
54	Surface energy and wettability of van der Waals structures. <i>Nanoscale</i> , 2016 , 8, 5764-70	7.7	112
53	Metal-insulator transition in SrTiO(3-x) thin films induced by frozen-out carriers. <i>Physical Review Letters</i> , 2011 , 107, 146802	7.4	105
52	Anisotropic two-dimensional electron gas at the LaAlO ₃ /SrTiO ₃ (110) interface. <i>Nature Communications</i> , 2013 , 4, 1838	17.4	82
51	The effect of layer number and substrate on the stability of graphene under MeV proton beam irradiation. <i>Carbon</i> , 2011 , 49, 1720-1726	10.4	73
50	High temperature ferromagnetism in Mn-doped SnO ₂ nanocrystalline thin films. <i>Journal of Applied Physics</i> , 2007 , 102, 113513	2.5	71
49	Extremely large magnetoresistance in few-layer graphene/boron-nitride heterostructures. <i>Nature Communications</i> , 2015 , 6, 8337	17.4	70
48	Selective growth of single phase VO ₂ (A, B, and M) polymorph thin films. <i>APL Materials</i> , 2015 , 3, 026101	5.7	63
47	Electronic correlation and strain effects at the interfaces between polar and nonpolar complex oxides. <i>Physical Review B</i> , 2012 , 86,	3.3	58
46	The role of charge traps in inducing hysteresis: Capacitance-voltage measurements on top gated bilayer graphene. <i>Applied Physics Letters</i> , 2011 , 99, 083109	3.4	57
45	Magnetoresistance of two-dimensional and three-dimensional electron gas in LaAlO ₃ /SrTiO ₃ heterostructures: Influence of magnetic ordering, interface scattering, and dimensionality. <i>Physical Review B</i> , 2011 , 84,	3.3	53
44	Mega-electron-volt proton irradiation on supported and suspended graphene: A Raman spectroscopic layer dependent study. <i>Journal of Applied Physics</i> , 2011 , 110, 084309	2.5	52

43	A comparative study on the structure and properties of nanolayered TiN/NbN and TiAlN/TiN multilayer coatings prepared by reactive direct current magnetron sputtering. <i>Thin Solid Films</i> , 2006 , 503, 158-166	2.2	49
42	Liquid-Gated High Mobility and Quantum Oscillation of the Two-Dimensional Electron Gas at an Oxide Interface. <i>ACS Nano</i> , 2016 , 10, 4532-7	16.7	41
41	Current-driven spin orbit field in LaAlO ₃ /SrTiO ₃ heterostructures. <i>Applied Physics Letters</i> , 2014 , 105, 162405	3.4	41
40	Fourfold oscillation in anisotropic magnetoresistance and planar Hall effect at the LaAlO ₃ /SrTiO ₃ heterointerfaces: Effect of carrier confinement and electric field on magnetic interactions. <i>Physical Review B</i> , 2013 , 87,	3.3	40
39	Two-dimensional superconductor-insulator quantum phase transitions in an electron-doped cuprate. <i>Physical Review B</i> , 2015 , 92,	3.3	38
38	Giant magnetoresistance in single-layer graphene flakes with a gate-voltage-tunable weak antilocalization. <i>Physical Review B</i> , 2013 , 88,	3.3	34
37	Electron Transport at the TiO ₂ Surfaces of Rutile, Anatase, and Strontium Titanate: The Influence of Orbital Corrugation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24616-21	9.5	32
36	Perfect proton selectivity in ion transport through two-dimensional crystals. <i>Nature Communications</i> , 2019 , 10, 4243	17.4	31
35	Black Phosphorus Transistors with Near Band Edge Contact Schottky Barrier. <i>Scientific Reports</i> , 2015 , 5, 18000	4.9	29
34	Ambipolar bistable switching effect of graphene. <i>Applied Physics Letters</i> , 2010 , 97, 262105	3.4	28
33	Proton and Li-Ion Permeation through Graphene with Eight-Atom-Ring Defects. <i>ACS Nano</i> , 2020 , 14, 7280-7286	16.7	27
32	Large area resist-free soft lithographic patterning of graphene. <i>Small</i> , 2013 , 9, 711-5	11	27
31	Disorder-free sputtering method on graphene. <i>AIP Advances</i> , 2012 , 2, 032121	1.5	27
30	Transport of hydrogen isotopes through interlayer spacing in van der Waals crystals. <i>Nature Nanotechnology</i> , 2018 , 13, 468-472	28.7	26
29	Gate Tunable In- and Out-of-Plane Spin-Orbit Coupling and Spin-Splitting Anisotropy at LaAlO ₃ /SrTiO ₃ (110) Interface. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500114	6.4	24
28	Multifunctional Ti _{1-x} Ta _x O ₂ : Ta doping or alloying?. <i>Applied Physics Letters</i> , 2011 , 98, 072111	3.4	23
27	Parallel-leaky capacitance equivalent circuit model for MgO magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2012 , 101, 162404	3.4	22
26	Reversible metal-insulator transition in LaAlO ₃ thin films mediated by intragap defects: An alternative mechanism for resistive switching. <i>Physical Review B</i> , 2011 , 84,	3.3	19

25	Tailoring the electronic properties of SrRuO ₃ films in SrRuO ₃ /LaAlO ₃ superlattices. <i>Applied Physics Letters</i> , 2012 , 101, 223105	3.4	17
24	Atomically flat interface between a single-terminated LaAlO ₃ substrate and SrTiO ₃ thin film is insulating. <i>AIP Advances</i> , 2012 , 2, 012147	1.5	17
23	Correlation of nanoscale behaviour of forces and macroscale surface wettability. <i>Nanoscale</i> , 2016 , 8, 15597-603	7.7	17
22	Long-range magnetic coupling across a polar insulating layer. <i>Nature Communications</i> , 2016 , 7, 11015	17.4	16
21	Tunable metal-insulator transitions in bilayer graphene by thermal annealing. <i>Applied Physics Letters</i> , 2011 , 98, 233108	3.4	16
20	Interfacial Rashba magnetoresistance of the two-dimensional electron gas at the LaAlO ₃ /SrTiO ₃ interface. <i>Physical Review B</i> , 2017 , 96,	3.3	13
19	Biaxial strain effect of spin dependent tunneling in MgO magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2012 , 101, 042407	3.4	13
18	Tunneling characteristics of graphene. <i>Applied Physics Letters</i> , 2010 , 97, 252102	3.4	13
17	Unexpected observation of spatially separated Kondo scattering and ferromagnetism in Ta alloyed anatase TiO ₂ thin films. <i>Scientific Reports</i> , 2015 , 5, 13011	4.9	12
16	A study of room-temperature ferromagnetism in transition metal and fluorine-doped spray-pyrolyzed SnO ₂ thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 957-962	2.8	11
15	Metal-insulator transition at a depleted LaAlO ₃ /SrTiO ₃ interface: Evidence for charge transfer induced by SrTiO ₃ phase transitions. <i>Applied Physics Letters</i> , 2011 , 99, 172103	3.4	11
14	Investigation of interface properties of sputter deposited TiN/CrN superlattices by low angle x-ray reflectivity. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 205409	3	10
13	Interplay between carrier and cationic defect concentration in ferromagnetism of anatase Ti _{1-x} Ta _x O ₂ thin films. <i>AIP Advances</i> , 2012 , 2, 012148	1.5	9
12	NSOM/HRTEM Characterization of Biologically Derived Cubo-Octahedral Nanomagnets. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 4861-4864	2	8
11	Evidence of carrier mediated room temperature ferromagnetism in transparent semiconducting Sn _{1-x} CoxO ₂ thin films. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 125208	1.8	8
10	Effect of Nb and Ta substitution on donor electron transport and ultrafast carrier dynamics in anatase TiO ₂ thin films. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 6329-6333	7.1	6
9	Universal scaling of resistivity in bilayer graphene. <i>Applied Physics Letters</i> , 2012 , 101, 223111	3.4	6
8	On the blueshift in Sn _{1-x} CoxO ₂ transparent ferromagnetic semiconductor thin films. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 016216	1.8	5

7	Stochastic nonlinear electrical characteristics of graphene. <i>Applied Physics Letters</i> , 2013 , 102, 033101	3.4	4
6	Magnetic field control of hysteretic switching in Co/Al ₂ O ₃ multilayers by carrier injection. <i>AIP Advances</i> , 2011 , 1, 042158	1.5	4
5	Selective transport of water molecules through interlayer spaces in graphite.. <i>Nature Communications</i> , 2022 , 13, 498	17.4	4
4	Reply to: Random interstratification in hydrated graphene oxide membranes and implications for seawater desalination.. <i>Nature Nanotechnology</i> , 2022 ,	28.7	2
3	Nickel-phosphide contact for effective Schottky barrier modulation in black phosphorus p-channel transistors 2016 ,		2
2	Effect of Ta Alloying on the Optical, Electronic, and Magnetic Properties of TiO ₂ Thin Films 2013 , 133-162		1
1	Electric-field-induced magnetization changes in Co/Al ₂ O ₃ granular multilayers. <i>Physical Review B</i> , 2013 , 87,	3.3	1