## Gopinadhan Kalon

## List of Publications by Year in Descending Order

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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.

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

#	Paper	IF	Citations
60	Reply to: Random interstratification in hydrated graphene oxide membranes and implications for seawater desalination <i>Nature Nanotechnology</i> , <b>2022</b> ,	28.7	2
59	Selective transport of water molecules through interlayer spaces in graphite <i>Nature Communications</i> , <b>2022</b> , 13, 498	17.4	4
58	Proton and Li-Ion Permeation through Graphene with Eight-Atom-Ring Defects. <i>ACS Nano</i> , <b>2020</b> , 14, 7280-7286	16.7	27
57	Perfect proton selectivity in ion transport through two-dimensional crystals. <i>Nature Communications</i> , <b>2019</b> , 10, 4243	17.4	31
56	Complete steric exclusion of ions and proton transport through confined monolayer water. <i>Science</i> , <b>2019</b> , 363, 145-148	33.3	131
55	Transport of hydrogen isotopes through interlayer spacing in van der Waals crystals. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 468-472	28.7	26
54	Tunable sieving of ions using graphene oxide membranes. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 546-550	28.7	960
53	Size effect in ion transport through angstrom-scale slits. <i>Science</i> , <b>2017</b> , 358, 511-513	33.3	246
52	Interfacial Rashba magnetoresistance of the two-dimensional electron gas at the LaAlO3/SrTiO3 interface. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	13
51	Long-range magnetic coupling across a polar insulating layer. <i>Nature Communications</i> , <b>2016</b> , 7, 11015	17.4	16
50	Surface energy and wettability of van der Waals structures. <i>Nanoscale</i> , <b>2016</b> , 8, 5764-70	7.7	112
49	Liquid-Gated High Mobility and Quantum Oscillation of the Two-Dimensional Electron Gas at an Oxide Interface. <i>ACS Nano</i> , <b>2016</b> , 10, 4532-7	16.7	41
48	Molecular transport through capillaries made with atomic-scale precision. <i>Nature</i> , <b>2016</b> , 538, 222-225	50.4	325
47	Correlation of nanoscale behaviour of forces and macroscale surface wettability. <i>Nanoscale</i> , <b>2016</b> , 8, 15597-603	7.7	17
46	Nickel-phosphide contact for effective Schottky barrier modulation in black phosphorus p-channel transistors <b>2016</b> ,		2
45	Extremely large magnetoresistance in few-layer graphene/boron-nitride heterostructures. <i>Nature Communications</i> , <b>2015</b> , 6, 8337	17.4	70
44	Electron Transport at the TiOl Surfaces of Rutile, Anatase, and Strontium Titanate: The Influence of Orbital Corrugation. ACS Applied Materials & amp; Interfaces, 2015, 7, 24616-21	9.5	32

## (2012-2015)

43	Black Phosphorus Transistors with Near Band Edge Contact Schottky Barrier. <i>Scientific Reports</i> , <b>2015</b> , 5, 18000	4.9	29
42	Gate Tunable In- and Out-of-Plane Spinthrbit Coupling and Spin-Splitting Anisotropy at LaAlO3/SrTiO3 (110) Interface. <i>Advanced Electronic Materials</i> , <b>2015</b> , 1, 1500114	6.4	24
41	Two-dimensional superconductor-insulator quantum phase transitions in an electron-doped cuprate. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	38
40	Unexpected observation of spatially separated Kondo scattering and ferromagnetism in Ta alloyed anatase TiO2 thin films. <i>Scientific Reports</i> , <b>2015</b> , 5, 13011	4.9	12
39	Selective growth of single phase VO2(A, B, and M) polymorph thin films. APL Materials, 2015, 3, 026101	5.7	63
38	Effect of Nb and Ta substitution on donor electron transport and ultrafast carrier dynamics in anatase TiO2 thin films. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 6329-6333	7.1	6
37	Current-driven spin orbit field in LaAlO3/SrTiO3 heterostructures. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 162405	3.4	41
36	Effect of Ta Alloying on the Optical, Electronic, and Magnetic Properties of TiO2 Thin Films <b>2013</b> , 133-1	62	1
35	Anisotropic two-dimensional electron gas at the LaAlO/SrTiOI(110) interface. <i>Nature Communications</i> , <b>2013</b> , 4, 1838	17.4	82
34	Electric-field-induced magnetization changes in Co/Al2O3 granular multilayers. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	1
33	Large area resist-free soft lithographic patterning of graphene. Small, 2013, 9, 711-5	11	27
32	Giant magnetoresistance in single-layer graphene flakes with a gate-voltage-tunable weak antilocalization. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	34
31	Fourfold oscillation in anisotropic magnetoresistance and planar Hall effect at the LaAlO3/SrTiO3 heterointerfaces: Effect of carrier confinement and electric field on magnetic interactions. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	40
30	Stochastic nonlinear electrical characteristics of graphene. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 033101	3.4	4
29	Universal scaling of resistivity in bilayer graphene. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 223111	3.4	6
28	Magnetism in MoS2 induced by proton irradiation. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 102103	3.4	170
27	Biaxial strain effect of spin dependent tunneling in MgO magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 042407	3.4	13
26	Parallel-leaky capacitance equivalent circuit model for MgO magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 162404	3.4	22

25	Tailoring the electronic properties of SrRuO3 films in SrRuO3/LaAlO3 superlattices. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 223105	3.4	17
24	Electronic correlation and strain effects at the interfaces between polar and nonpolar complex oxides. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	58
23	Disorder-free sputtering method on graphene. AIP Advances, 2012, 2, 032121	1.5	27
22	Interplay between carrier and cationic defect concentration in ferromagnetism of anatase Ti1-xTaxO2 thin films. <i>AIP Advances</i> , <b>2012</b> , 2, 012148	1.5	9
21	Atomically flat interface between a single-terminated LaAlO3 substrate and SrTiO3 thin film is insulating. <i>AIP Advances</i> , <b>2012</b> , 2, 012147	1.5	17
20	Mega-electron-volt proton irradiation on supported and suspended graphene: A Raman spectroscopic layer dependent study. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 084309	2.5	52
19	Tunable metal[hsulator transitions in bilayer graphene by thermal annealing. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 233108	3.4	16
18	Magnetic field control of hysteretic switching in Co/Al2O3 multilayers by carrier injection. <i>AIP Advances</i> , <b>2011</b> , 1, 042158	1.5	4
17	Metal-insulator transition in SrTiO(3-x) thin films induced by frozen-out carriers. <i>Physical Review Letters</i> , <b>2011</b> , 107, 146802	7.4	105
16	The effect of layer number and substrate on the stability of graphene under MeV proton beam irradiation. <i>Carbon</i> , <b>2011</b> , 49, 1720-1726	10.4	73
15	Magnetoresistance of two-dimensional and three-dimensional electron gas in LaAlO3/SrTiO3 heterostructures: Influence of magnetic ordering, interface scattering, and dimensionality. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	53
14	Metal-insulator transition at a depleted LaAlO3/SrTiO3 interface: Evidence for charge transfer induced by SrTiO3 phase transitions. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 172103	3.4	11
13	The role of charge traps in inducing hysteresis: CapacitanceNoltage measurements on top gated bilayer graphene. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 083109	3.4	57
12	Reversible metal-insulator transition in LaAlO3 thin films mediated by intragap defects: An alternative mechanism for resistive switching. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	19
11	Multifunctional Ti1⊠TaxO2: Ta doping or alloying?. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 072111	3.4	23
10	Tunneling characteristics of graphene. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 252102	3.4	13
9	Ambipolar bistable switching effect of graphene. Applied Physics Letters, 2010, 97, 262105	3.4	28
8	Surface-energy engineering of graphene. <i>Langmuir</i> , <b>2010</b> , 26, 3798-802	4	383

## LIST OF PUBLICATIONS

7	NSOM/HRTEM Characterization of Biologically Derived Cubo©ctahedral Nanomagnets. <i>IEEE Transactions on Magnetics</i> , <b>2009</b> , 45, 4861-4864	2	8
6	A study of room-temperature ferromagnetism in transition metal and fluorine-doped spray-pyrolyzed SnO2 thin films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2009</b> , 321, 957-962	2.8	11
5	Evidence of carrier mediated room temperature ferromagnetism in transparent semiconducting Sn1\( \text{NCoxO2}\) Ehin films. Journal of Physics Condensed Matter, <b>2008</b> , 20, 125208	1.8	8
4	Investigation of interface properties of sputter deposited TiN/CrN superlattices by low angle x-ray reflectivity. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 205409	3	10
3	On the blueshift in Sn1\(\mathbb{L}\)CoxO2\(\mathbb{E}\)ransparent ferromagnetic semiconductor thin films. <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 016216	1.8	5
2	High temperature ferromagnetism in Mn-doped SnO2 nanocrystalline thin films. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 113513	2.5	71
1	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> , <b>2006</b> . 503. 158-166	2.2	49