

# Saurabh Kumar Bose

## List of Publications by Year in descending order

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21  
papers

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citations

933447  
10  
h-index

839539  
18  
g-index

21  
all docs

21  
docs citations

21  
times ranked

509  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of a designless nanoparticle network into reconfigurable Boolean logic. Nature Nanotechnology, 2015, 10, 1048-1052.	31.5	117
2	Avalanches and criticality in self-organized nanoscale networks. Science Advances, 2019, 5, eaaw8438.	10.3	68
3	Atomic Scale Dynamics Drive Brain-like Avalanches in Percolating Nanostructured Networks. Nano Letters, 2020, 20, 3935-3942.	9.1	46
4	Stable Self-Assembled Atomic-Switch Networks for Neuromorphic Applications. IEEE Transactions on Electron Devices, 2017, 64, 5194-5201.	3.0	41
5	Long-range temporal correlations in scale-free neuromorphic networks. Network Neuroscience, 2020, 4, 432-447.	2.6	36
6	Tunable doping of a metal with molecular spins. Nature Nanotechnology, 2012, 7, 232-236.	31.5	29
7	Synaptic dynamics in complex self-assembled nanoparticle networks. Faraday Discussions, 2019, 213, 471-485.	3.2	24
8	Giant coercivity nanodots and fractals in CoPt films grown on (001) SrTiO <sub>3</sub> using pulsed laser deposition. Applied Physics Letters, 2006, 89, 202511.	3.3	21
9	Correlations between morphology, crystal structure, and magnetization of epitaxial cobalt-platinum films grown with pulsed laser ablation. Journal of Applied Physics, 2008, 103, 023915.	2.5	19
10	Stochastic Spiking Behavior in Neuromorphic Networks Enables True Random Number Generation. ACS Applied Materials & Interfaces, 2021, 13, 52861-52870.	8.0	14
11	Stress-induced competing ferromagnetic and antiferromagnetic orders in epitaxial films of A-type antiferromagnet La <sub>0.45</sub> Sr <sub>0.55</sub> MnO <sub>3</sub> . Journal of Physics Condensed Matter, 2007, 19, 226204.	1.8	12
12	Lattice-mismatch-induced granularity in CoPt-NbN and NbN-CoPt superconductor-ferromagnet heterostructures: Effect of strain. Physical Review B, 2008, 77, .	3.2	6
13	Self-organized nanoscale networks: are neuromorphic properties conserved in realistic device geometries?. Neuromorphic Computing and Engineering, 0, .	5.9	6
14	Growth of [110] La <sub>2</sub> â••3Sr1â••3MnO3â••YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> heterostructures. Applied Physics Letters, 2006, 89, 1825083.3		5
15	Tuning the Kondo effect in thin Au films by depositing a thin layer of Au on molecular spin-dopants. Nanotechnology, 2013, 24, 375204.	2.6	4
16	Neuromorphic behaviour in discontinuous metal films. Nanoscale Horizons, 2022, 7, 437-445.	8.0	4
17	Percolative spin-dependent transport in mesoscopic epitaxial Fe plaquettes of tailored connectivity. Physical Review B, 2008, 78, .	3.2	3
18	Robust coupling of superconducting order parameter in a mesoscale NbNâ••Feâ••NbN epitaxial structure. Applied Physics Letters, 2009, 95, 042507.	3.3	2

#	ARTICLE	IF	CITATIONS
19	Magnetoresistance studies of MeV ranged 1H+ and 12C+ ion irradiated HOPG flakes. Journal of Magnetism and Magnetic Materials, 2012, 324, 3887-3892.	2.3	1
20	Design and fabrication of cryogenic probe for penetration depth measurements down to 1.8 K. Journal of Physics: Conference Series, 2009, 150, 012005.	0.4	0
21	Flux-closure pattern in a two-dimensional NbNâ€Fe superconductor-ferromagnet nanocomposite: Anisotropy of the angular magnetoresistance. Journal of Applied Physics, 2010, 108, 103916.	2.5	0