

Parag Banerjee

List of Publications by Year in descending order

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61
papers

2,149
citations

304602

22
h-index

223716

46
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63
all docs

63
docs citations

63
times ranked

3996
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiscale Characterization of Photovoltaic Modules—Case Studies of Contact and Interconnect Degradation. IEEE Journal of Photovoltaics, 2022, 12, 62-72.	1.5	10
2	Machine learning approach to thickness prediction from <i>in situ</i> spectroscopic ellipsometry data for atomic layer deposition processes. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, .	0.9	5
3	Enhancement of ZnSe stability during optical composite processing via atomic layer deposition. Journal of Non-Crystalline Solids, 2022, 576, 121259.	1.5	5
4	Raman Microspectroscopy of a Multi-Crystalline Silicon Solar Cell. IEEE Journal of Photovoltaics, 2022, 12, 230-237.	1.5	0
5	Process—Structure—Properties Relationships of Passivating, Electron-Selective Contacts Formed by Atmospheric Pressure Chemical Vapor Deposition of Phosphorus-Doped Polysilicon. Physica Status Solidi - Rapid Research Letters, 2022, 16, .	1.2	6
6	Optically active Fe ²⁺ -doped ZnSe particles in a chalcogenide glass matrix. Optical Materials Express, 2022, 12, 1555.	1.6	8
7	ALD based nanostructured zinc oxide coated antiviral silk fabric. RSC Advances, 2022, 12, 19327-19339.	1.7	9
8	Raman microspectroscopy of a silicon solar cell. , 2021, , .		1
9	Semiconductor-to-metal transition in atomic layer deposition (ALD) of VO ₂ films using VCl ₄ and water. Applied Physics Letters, 2021, 118, .	1.5	4
10	Ultralow Loading Ruthenium on Alumina Monoliths for Facile, Highly Recyclable Reduction of p-Nitrophenol. Catalysts, 2021, 11, 165.	1.6	6
11	<i>In situ</i> ellipsometry aided rapid ALD process development and parameter space visualization of cerium oxide nanofilms. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	0.9	3
12	Achieving near-zero temperature coefficient of resistivity in atomic layer deposition TiSixN films through composition tuning. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, 062404.	0.9	5
13	Improving the Passivation of Molybdenum Oxide Hole-Selective Contacts with 1-µm Hydrogenated Aluminum Oxide Films for Silicon Solar Cells. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000093.	0.8	11
14	Review Article: Atomic layer deposition of doped ZnO films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, .	0.9	52
15	Self-Catalyzed, Low-Temperature Atomic Layer Deposition of Ruthenium Metal Using Zero-Valent Ru(DMBD)(CO) ₃ and Water. Chemistry of Materials, 2019, 31, 1304-1317.	3.2	20
16	Materials science and engineering graduate core courses in the United States. MRS Bulletin, 2019, 44, 7-9.	1.7	0
17	Mechanism of Na-Ion Storage in BiOCl Anode and the Sodium-Ion Battery Formation. Journal of Physical Chemistry C, 2019, 123, 11500-11507.	1.5	18
18	Amorphous Cu ₂ O as Passivation Layer for Ultra Long Stability of Copper Oxide Nanowires in Photoelectrochemical Environments. Journal of the Electrochemical Society, 2018, 165, H417-H424.	1.3	3

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19	SnO ₂ Nanostructured Thin Films for Room-Temperature Gas Sensing of Volatile Organic Compounds. ACS Applied Materials & Interfaces, 2018, 10, 29972-29981.	4.0	44
20	Intrinsic point defects and intergrowths in layered bismuth triiodide. Physical Review Materials, 2018, 2, .	0.9	12
21	Cationically Substituted Bi _{0.7} Fe _{0.3} OCl Nanosheets as Li Ion Battery Anodes. ACS Applied Materials & Interfaces, 2017, 9, 14187-14196.	4.0	32
22	Nanoscale Matrix Topography Influences Microscale Cell Motility through Adhesions, Actin Organization, and Cell Shape. ACS Biomaterials Science and Engineering, 2017, 3, 2980-2986.	2.6	31
23	Atmospheric pressure chemical vapor deposition of methylammonium bismuth iodide thin films. Journal of Materials Chemistry A, 2017, 5, 24728-24739.	5.2	41
24	Understanding EDXS Analysis of Nanostructures in TEM. Microscopy and Microanalysis, 2017, 23, 1086-1087.	0.2	0
25	Unraveling delocalized electrons in metal induced gap states from second harmonics. Applied Physics Letters, 2017, 111, .	1.5	3
26	Configurational Entropy of Adlayers in Atomic Layer Deposition. Chemistry of Materials, 2017, 29, 5458-5462.	3.2	4
27	Phase and stress evolution of Si swarf in the diamond-coated wire sawing of Si ingots. International Journal of Advanced Manufacturing Technology, 2017, 89, 735-742.	1.5	6
28	Standing and sitting adlayers in atomic layer deposition of ZnO. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	0.9	20
29	Indirect Phase Transformation of CuO to Cu ₂ O on a Nanowire Surface. Langmuir, 2016, 32, 4485-4493.	1.6	39
30	Doping Mechanism in Transparent, Conducting Tantalum Doped ZnO Films Deposited Using Atomic Layer Deposition. Advanced Materials Interfaces, 2016, 3, 1600496.	1.9	15
31	Disentangling Photochromism and Electrochromism by Blocking Hole Transfer at the Electrolyte Interface. Chemistry of Materials, 2016, 28, 7198-7202.	3.2	24
32	Star-shaped hole transport materials with indeno[1,2-b] thiophene or fluorene on a triazine core for efficient perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 1186-1190.	5.2	38
33	Phase and stress evolution in diamond microparticles during diamond-coated wire sawing of Si ingots. International Journal of Advanced Manufacturing Technology, 2016, 82, 1675-1682.	1.5	12
34	Direct Growth of Flexible and Scalable Photocathodes from Î±-Brass Substrates. ACS Sustainable Chemistry and Engineering, 2015, 3, 3197-3204.	3.2	9
35	Electrical conductivity of p-type BiOCl nanosheets. Chemical Communications, 2015, 51, 2629-2632.	2.2	46
36	Surface Engineered CuO Nanowires with ZnO Islands for CO ₂ Photoreduction. ACS Applied Materials & Interfaces, 2015, 7, 5685-5692.	4.0	100

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37	Anodization control for barrier-oxide thinning and 3D interconnected pores and direct electrodeposition of nanowire networks on native aluminium substrates. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 3873-3879.	1.3	13
38	Highly Conducting, <i>n</i> -Type Bi ₂ O ₁₅ Cl ₆ Nanosheets with Superlattice-like Structure. <i>Chemistry of Materials</i> , 2015, 27, 7710-7718.	3.2	55
39	Rayleigh Instability Driven Nodular Cu ₂ O Nanowires via Carbothermal Reduction of CuO Nanowires. <i>Crystal Growth and Design</i> , 2015, 15, 1588-1595.	1.4	15
40	Charge transport in single CuO nanowires. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	32
41	Confined anodic aluminum oxide nanopores on aluminum wires. <i>RSC Advances</i> , 2014, 4, 7919.	1.7	7
42	Unravelling transient phases during thermal oxidation of copper for dense CuO nanowire growth. <i>CrystEngComm</i> , 2014, 16, 3264-3267.	1.3	33
43	Plasmonic Metal-to-Semiconductor Switching in Au Nanorod-ZnO nanocomposite films. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7693-7697.	4.0	22
44	Analysis of biological and artificial chemical sensor responses to odor mixtures. , 2013, , .		0
45	Survey reveals interdisciplinarity of MSE faculty. <i>MRS Bulletin</i> , 2012, 37, 541-542.	1.7	1
46	Ozone-Based Atomic Layer Deposition of Crystalline V ₂ O ₅ Films for High Performance Electrochemical Energy Storage. <i>Chemistry of Materials</i> , 2012, 24, 1255-1261.	3.2	118
47	Conduction in ultrathin ruthenium electrodes prepared by atomic layer deposition. <i>Materials Letters</i> , 2012, 73, 43-46.	1.3	18
48	Mixed mode, ionic-electronic diode using atomic layer deposition of V ₂ O ₅ and ZnO films. <i>Journal of Materials Chemistry</i> , 2011, 21, 15391.	6.7	12
49	MnO ₂ /TiN heterogeneous nanostructure design for electrochemical energy storage. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 15221.	1.3	50
50	High to ultra-high power electrical energy storage. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20714.	1.3	134
51	Confined propagation of covalent chemical reactions on single-walled carbon nanotubes. <i>Nature Communications</i> , 2011, 2, 382.	5.8	67
52	Correlation of Raman, electrical, and optical properties of high- $\hat{\rho}$, atomic layer deposited Al-doped TiO ₂ . <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011, 29, .	0.6	8
53	Plasmon-Induced Electrical Conduction in Molecular Devices. <i>ACS Nano</i> , 2010, 4, 1019-1025.	7.3	131
54	Structural, electrical, and optical properties of atomic layer deposition Al-doped ZnO films. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	320

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55	Profile Evolution for Conformal Atomic Layer Deposition over Nanotopography. ACS Nano, 2010, 4, 4637-4644.	7.3	31
56	Nanotubular metal-insulator-metal capacitor arrays for energy storage. Nature Nanotechnology, 2009, 4, 292-296.	15.6	337
57	Crystallization Behavior of HfO ₂ Nanotubes in Different Environments. Microscopy and Microanalysis, 2009, 15, 1250-1251.	0.2	3
58	TEM-Based Metrology for HfO ₂ Layers and Nanotubes Formed in Anodic Aluminum Oxide Nanopore Structures. Small, 2008, 4, 1223-1232.	5.2	66
59	Uniqueness in Activation Energy and Charge-to-Breakdown of Highly Asymmetrical DRAM Al_2O_3 Cell Capacitors. IEEE Electron Device Letters, 2004, 25, 574-576.	2.2	14
60	Layered lead zirconate titanate and lanthanum-doped lead zirconate titanate ceramic thin films. Journal of Materials Research, 2002, 17, 2379-2385.	1.2	14
61	Frontiers in Applied Atomic Layer Deposition (ALD) Research. Materials Science Forum, 0, 736, 147-182.	0.3	4