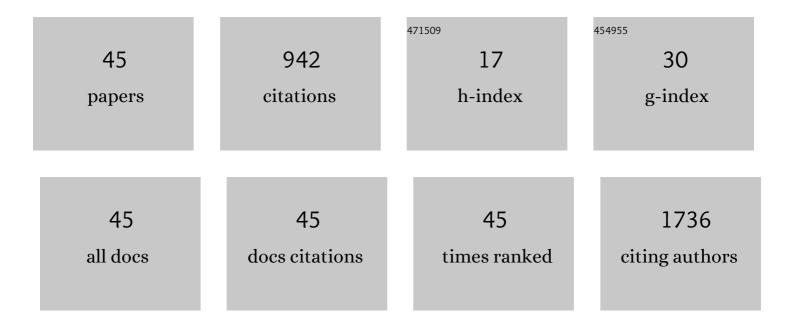
Sanjay K Behura

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Nanoscience and Nanotechnology for Food and Agroforestry. ES Food & Agroforestry, 2021, , .	1.3	2
2	Highly Efficient Osmotic Energy Harvesting in Charged Boronâ€Nitrideâ€Nanopore Membranes. Advanced Functional Materials, 2021, 31, 2009586.	14.9	52
3	Development of photovoltaic solar cells based on heterostructure of layered materials: challenges and opportunities. Emergent Materials, 2021, 4, 881-900.	5.7	6
4	Preface on:"Challenges and Opportunities for 2D Materials and Heterostructure Devices― Emergent Materials, 2021, 4, 811-812.	5.7	3
5	Moiré physics in twisted van der Waals heterostructures of 2D materials. Emergent Materials, 2021, 4, 813-826.	5.7	17
6	Perovskite semiconductor-engineered cascaded molecular energy levels in naturally-sensitized photoanodes. Renewable and Sustainable Energy Reviews, 2021, 151, 111606.	16.4	5
7	MXene: A Non-oxide Next-Generation Energy Storage Materials for Batteries and Supercapacitors. Materials Horizons, 2021, , 73-98.	0.6	2
8	CHAPTER 8. Highly Efficient Dye-sensitized Solar Cells with Integrated 3D Graphene-based Materials. Chemistry in the Environment, 2021, , 205-236.	0.4	1
9	Direct growth of hexagonal boron nitride on non-metallic substrates and its heterostructures with graphene. IScience, 2021, 24, 103374.	4.1	19
10	Electric-Field-Induced Phase Change in Copper Oxide Nanostructures. ACS Omega, 2021, 6, 33130-33140.	3.5	8
11	Cuboctahedral stability in Titanium halide perovskites via machine learning. Computational Materials Science, 2020, 173, 109415.	3.0	23
12	Organophilicity of Graphene Oxide for Enhanced Wettability of ZnO Nanorods. ACS Applied Materials & Interfaces, 2020, 12, 39772-39780.	8.0	7
13	Temperature dependent device characteristics of graphene/h-BN/Si heterojunction. Semiconductor Science and Technology, 2020, 35, 075020.	2.0	12
14	Biomolecular photosensitizers for dye-sensitized solar cells: Recent developments and critical insights. Renewable and Sustainable Energy Reviews, 2020, 121, 109678.	16.4	91
15	Photo-organometallic, Nanoparticle Nucleation on Graphene for Cascaded Doping. ACS Nano, 2019, 13, 12929-12938.	14.6	5
16	Graphene–semiconductor heterojunction sheds light on emerging photovoltaics. Nature Photonics, 2019, 13, 312-318.	31.4	94
17	WS ₂ -induced enhanced optical absorption and efficiency in graphene/silicon heterojunction photovoltaic cells. Nanoscale, 2018, 10, 20218-20225.	5.6	17
18	Introduction of Protonated Sites on Exfoliated, Large-Area Sheets of Hexagonal Boron Nitride. ACS Nano, 2018, 12, 9931-9939.	14.6	48

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#	Article	IF	CITATIONS
19	Intergrain Diffusion of Carbon Radical for Wafer-Scale, Direct Growth of Graphene on Silicon-Based Dielectrics. ACS Applied Materials & Interfaces, 2018, 10, 26517-26525.	8.0	11
20	Chemical Interaction-Guided, Metal-Free Growth of Large-Area Hexagonal Boron Nitride on Silicon-Based Substrates. ACS Nano, 2017, 11, 4985-4994.	14.6	30
21	WS2/Silicon Heterojunction Solar Cells: A CVD Process for the Fabrication of WS2 Films on p-Si Substrates for Photovoltaic and Spectral Responses. IEEE Nanotechnology Magazine, 2017, 11, 33-38.	1.3	21
22	Photovoltaic and impedance spectroscopic characteristics of heterojunction of graphene-PEDOT:PSS composite and n-silicon prepared via solution-based process. Materials Research Innovations, 2017, 21, 263-268.	2.3	5
23	Retained Carrier-Mobility and Enhanced Plasmonic-Photovoltaics of Graphene via ring-centered η ⁶ Functionalization and Nanointerfacing. Nano Letters, 2017, 17, 4381-4389.	9.1	39
24	Flexible polymer-multiwall carbon nanotubes composite developed by in situ polymerization technique. Polymer Composites, 2016, 37, 2860-2870.	4.6	6
25	Confined, Oriented, and Electrically Anisotropic Graphene Wrinkles on Bacteria. ACS Nano, 2016, 10, 8403-8412.	14.6	35
26	Electrical Transport and Network Percolation in Graphene and Boron Nitride Mixed-Platelet Structures. ACS Applied Materials & Interfaces, 2016, 8, 8721-8727.	8.0	18
27	Electrical Characteristics of Horizontally and Vertically Oriented Few-Layer Graphene on Si-Based Dielectrics. Journal of Nanoscience and Nanotechnology, 2016, 16, 6246-6251.	0.9	3
28	Chemical Vapor Deposited Few-Layer Graphene as an Electron Field Emitter. Journal of Nanoscience and Nanotechnology, 2016, 16, 287-295.	0.9	4
29	Graphene, conducting polymer and their composites as transparent and current spreading electrode in GaN solar cells. Superlattices and Microstructures, 2016, 92, 366-373.	3.1	17
30	p-GaN/i-In \$\$_mathrm{x }\$\$ x Ga1 \$\$_mathrm{x }\$\$ x N/n-GaN solar cell with indium compositional grading. Optical and Quantum Electronics, 2015, 47, 1117-1126.	3.3	5
31	Optimizing Performance Parameters of Chemically-Derived Graphene/ <i>p</i> -Si Heterojunction Solar Cell. Journal of Nanoscience and Nanotechnology, 2015, 15, 4877-4882.	0.9	11
32	Metal/InGaN Schottky junction solar cells: an analytical approach. Applied Physics A: Materials Science and Processing, 2015, 118, 1459-1468.	2.3	13
33	Interfacial Nondegenerate Doping of MoS2and Other Two-Dimensional Semiconductors. ACS Nano, 2015, 9, 2227-2230.	14.6	29
34	Large-Area, Transfer-Free, Oxide-Assisted Synthesis of Hexagonal Boron Nitride Films and Their Heterostructures with MoS ₂ and WS ₂ . Journal of the American Chemical Society, 2015, 137, 13060-13065.	13.7	110
35	Transparent Conductive Multiwall Carbon Nanotubes-Polymer Composite for Electrode Applications. Journal of Nanoscience and Nanotechnology, 2014, 14, 2816-2822.	0.9	5
36	Graphene as transparent and current spreading electrode in silicon solar cell. AIP Advances, 2014, 4, 117111.	1.3	7

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37	Catalyst-free synthesis of silicon nanowires by oxidation and reduction process. Journal of Materials Science, 2014, 49, 3592-3597.	3.7	7
38	Junction characteristics of chemically-derived graphene/p-Si heterojunction solar cell. Carbon, 2014, 67, 766-774.	10.3	58
39	Fabrication of Bi-Layer Graphene and Theoretical Simulation for Its Possible Application in Thin Film Solar Cell. Journal of Nanoscience and Nanotechnology, 2014, 14, 3022-3027.	0.9	9
40	A study on the 2D simulation of Pt/InGaN/GaN/metal Schottky junction solar cell. Semiconductor Science and Technology, 2013, 28, 055012.	2.0	6
41	Theoretical simulation of photovoltaic response of graphene-on-semiconductors. Applied Physics A: Materials Science and Processing, 2013, 111, 1159-1163.	2.3	16
42	Fabrication of multiple layer graphene films on Cuâ^•SiO[sub 2]â^•Si substrate by hot-filament chemical vapor deposition. , 2013, , .		0
43	Vertically oriented few-layer graphene as an electron field-emitter. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1817-1821.	1.8	22
44	The effect of indium composition on open-circuit voltage of InGaN thin-film solar cell: An analytical and computer simulation study. , 2012, , .		2
45	Anode supported solid oxide fuel cells (SOFC) by electrophoretic deposition. International Journal of Hydrogen Energy, 2011, 36, 14930-14935.	7.1	41