Buddha Deka Boruah

List of Publications by Citations

33 papers	1,053 citations	20 h-index	32 g-index
35 ext. papers	1,386 ext. citations	9.9 avg, IF	5.78 L-index

#	Paper	IF	Citations
33	Zinc oxide ultraviolet photodetectors: rapid progress from conventional to self-powered photodetectors. *Nanoscale Advances*, **2019**, 1, 2059-2085	5.1	121
32	Energy-Efficient Hydrogenated Zinc Oxide Nanoflakes for High-Performance Self-Powered Ultraviolet Photodetector. *ACS Applied Materials & Interfaces*, **2016**, 8, 18182-8	9.5	86
31	Highly Dense ZnO Nanowires Grown on Graphene Foam for Ultraviolet Photodetection. *ACS Applied Materials & Interfaces*, **2015**, 7, 10606-11	9.5	75
30	Sandwiched assembly of ZnO nanowires between graphene layers for a self-powered and fast responsive ultraviolet photodetector. *Nanotechnology*, **2016**, 27, 095205	3.4	74
29	Few-layer graphene/ZnO nanowires based high performance UV photodetector. *Nanotechnology*, **2015**, 26, 235703	3.4	71
28	Photo-Rechargeable Zinc-Ion Capacitor Using 2D Graphitic Carbon Nitride. *Nano Letters*, **2020**, 20, 5967-5974	11.5	50
27	Photo-rechargeable zinc-ion batteries. *Energy and Environmental Science*, **2020**, 13, 2414-2421	35.4	46
26	Photo-rechargeable Zinc-Ion Capacitors using V2O5-Activated Carbon Electrodes. *ACS Energy Letters*, **2020**, 5, 3132-3139	20.1	45
25	Synergistic effect in the heterostructure of ZnCoO and hydrogenated zinc oxide nanorods for high capacitive response. *Nanoscale*, **2017**, 9, 9411-9420	7.7	44
24	Flexible Array of Microsupercapacitor for Additive Energy Storage Performance Over a Large Area. *ACS Applied Materials & Interfaces*, **2018**, 10, 15864-15872	9.5	43
23	Doping controlled pyro-phototronic effect in self-powered zinc oxide photodetector for enhancement of photoresponse. *Nanoscale*, **2018**, 10, 3451-3459	7.7	38
22	Vanadium Dioxide Cathodes for High-Rate Photo-Rechargeable Zinc-Ion Batteries. *Advanced Energy Materials*, **2021**, 11, 2100115	21.8	36
21	Surface photo-charge effect in doped-ZnO nanorods for high-performance self-powered ultraviolet photodetectors. *Nanoscale*, **2017**, 9, 4536-4543	7.7	31
20	Layered Assembly of Reduced Graphene Oxide and Vanadium Oxide Heterostructure Supercapacitor Electrodes with Larger Surface Area for Efficient Energy-Storage Performance. *ACS Applied Energy Materials*, **2018**, 1, 1567-1574	6.1	30
19	Light Rechargeable Lithium-Ion Batteries Using VO Cathodes. *Nano Letters*, **2021**, 21, 3527-3532	11.5	30
18	Effect of Magnetic Field on Photoresponse of Cobalt Integrated Zinc Oxide Nanorods. *ACS Applied Materials & Interfaces*, **2016**, 8, 4771-80	9.5	29
17	A flexible ternary oxide based solid-state supercapacitor with excellent rate capability. *Journal of Materials Chemistry A*, **2016**, 4, 17552-17559	13	25

List of Publications

16	Polyethylenimine mediated reduced graphene oxide based flexible paper for supercapacitor. *Energy Storage Materials*, **2016**, 5, 103-110	19.4	24
15	ZnO quantum dots and graphene based heterostructure for excellent photoelastic and highly sensitive ultraviolet photodetector. *RSC Advances*, **2015**, 5, 90838-90846	3.7	21
14	Internal Asymmetric Tandem Supercapacitor for High Working Voltage along with Superior Rate Performance. *ACS Energy Letters*, **2017**, 2, 1720-1728	20.1	21
13	Roadmap of in-plane electrochemical capacitors and their advanced integrated systems. *Energy Storage Materials*, **2019**, 21, 219-239	19.4	19
12	Conjugated assembly of colloidal zinc oxide quantum dots and multiwalled carbon nanotubes for an excellent photosensitive ultraviolet photodetector. *Nanotechnology*, **2016**, 27, 355204	3.4	17
11	Recent advances in off-grid electrochemical capacitors. *Energy Storage Materials*, **2021**, 34, 53-75	19.4	13
10	Molybdenum Disulfide-Zinc Oxide Photocathodes for Photo-Rechargeable Zinc-Ion Batteries. *ACS Nano*, **2021**, 15, 16616-16624	16.7	12
9	Voltage Generation in Optically Sensitive Supercapacitor for Enhanced Performance. *ACS Applied Energy Materials*, **2019**, 2, 278-286	6.1	11
8	Photocharge-Enhanced Capacitive Response of a Supercapacitor. *Energy Technology*, **2017**, 5, 1356-1363	3.5	10
7	Nickel hydroxide coated carbon nanoparticles mediated hybrid three-dimensional graphene foam assembly for supercapacitor. *RSC Advances*, **2016**, 6, 36307-36313	3.7	9
6	Vanadium dioxide-zinc oxide stacked photocathodes for photo-rechargeable zinc-ion batteries. *Journal of Materials Chemistry A*, **2021**, 9, 23199-23205	13	8
5	Zinc oxide quantum dots decorated carbon nanotubes for improved opto-electro-mechanical response. *Sensors and Actuators A: Physical*, **2017**, 267, 351-359	3.9	6
4	Thermo-mechanical behavior of graphene oxide hydrogel. *Materials Research Express*, **2017**, 4, 025006	1.7	2
3	Capacitive behavior of carbon nanotube thin film induced by deformed ZnO microspheres. *Nanotechnology*, **2017**, 28, 395101	3.4	2
2	Influence of charge traps in carbon nanodots on gas interaction. *Nanotechnology*, **2017**, 28, 135206	3.4	1
1	In Situ and Operando Analyses of Reaction Mechanisms in Vanadium Oxides for Li-, Na-, Zn-, and Mg-Ions Batteries. *Advanced Materials Technologies*,2100799	6.8	0