

# Buddha Deka Boruah

## 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.

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	Vanadium dioxide-zinc oxide stacked photocathodes for photo-rechargeable zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 23199-23205	13	8
32	Molybdenum Disulfide-Zinc Oxide Photocathodes for Photo-Rechargeable Zinc-Ion Batteries. <i>ACS Nano</i> , <b>2021</b> , 15, 16616-16624	16.7	12
31	Vanadium Dioxide Cathodes for High-Rate Photo-Rechargeable Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100115	21.8	36
30	Light Rechargeable Lithium-Ion Batteries Using VO Cathodes. <i>Nano Letters</i> , <b>2021</b> , 21, 3527-3532	11.5	30
29	Recent advances in off-grid electrochemical capacitors. <i>Energy Storage Materials</i> , <b>2021</b> , 34, 53-75	19.4	13
28	Photo-rechargeable zinc-ion batteries. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 2414-2421	35.4	46
27	Photo-Rechargeable Zinc-Ion Capacitor Using 2D Graphitic Carbon Nitride. <i>Nano Letters</i> , <b>2020</b> , 20, 5967-5974	15.4	50
26	Photo-rechargeable Zinc-Ion Capacitors using V2O5-Activated Carbon Electrodes. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 3132-3139	20.1	45
25	Roadmap of in-plane electrochemical capacitors and their advanced integrated systems. <i>Energy Storage Materials</i> , <b>2019</b> , 21, 219-239	19.4	19
24	Zinc oxide ultraviolet photodetectors: rapid progress from conventional to self-powered photodetectors. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 2059-2085	5.1	121
23	Voltage Generation in Optically Sensitive Supercapacitor for Enhanced Performance. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 278-286	6.1	11
22	Flexible Array of Microsupercapacitor for Additive Energy Storage Performance Over a Large Area. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 15864-15872	9.5	43
21	Doping controlled pyro-phototronic effect in self-powered zinc oxide photodetector for enhancement of photoresponse. <i>Nanoscale</i> , <b>2018</b> , 10, 3451-3459	7.7	38
20	Layered Assembly of Reduced Graphene Oxide and Vanadium Oxide Heterostructure Supercapacitor Electrodes with Larger Surface Area for Efficient Energy-Storage Performance. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 1567-1574	6.1	30
19	Surface photo-charge effect in doped-ZnO nanorods for high-performance self-powered ultraviolet photodetectors. <i>Nanoscale</i> , <b>2017</b> , 9, 4536-4543	7.7	31
18	Influence of charge traps in carbon nanodots on gas interaction. <i>Nanotechnology</i> , <b>2017</b> , 28, 135206	3.4	1
17	Thermo-mechanical behavior of graphene oxide hydrogel. <i>Materials Research Express</i> , <b>2017</b> , 4, 025006	1.7	2

16	Synergistic effect in the heterostructure of ZnCoO and hydrogenated zinc oxide nanorods for high capacitive response. <i>Nanoscale</i> , <b>2017</b> , 9, 9411-9420	7.7	44
15	Photocharge-Enhanced Capacitive Response of a Supercapacitor. <i>Energy Technology</i> , <b>2017</b> , 5, 1356-1363	3.5	10
14	Zinc oxide quantum dots decorated carbon nanotubes for improved opto-electro-mechanical response. <i>Sensors and Actuators A: Physical</i> , <b>2017</b> , 267, 351-359	3.9	6
13	Capacitive behavior of carbon nanotube thin film induced by deformed ZnO microspheres. <i>Nanotechnology</i> , <b>2017</b> , 28, 395101	3.4	2
12	Internal Asymmetric Tandem Supercapacitor for High Working Voltage along with Superior Rate Performance. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1720-1728	20.1	21
11	A flexible ternary oxide based solid-state supercapacitor with excellent rate capability. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 17552-17559	13	25
10	Energy-Efficient Hydrogenated Zinc Oxide Nanoflakes for High-Performance Self-Powered Ultraviolet Photodetector. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 18182-8	9.5	86
9	Sandwiched assembly of ZnO nanowires between graphene layers for a self-powered and fast responsive ultraviolet photodetector. <i>Nanotechnology</i> , <b>2016</b> , 27, 095205	3.4	74
8	Effect of Magnetic Field on Photoresponse of Cobalt Integrated Zinc Oxide Nanorods. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 4771-80	9.5	29
7	Nickel hydroxide coated carbon nanoparticles mediated hybrid three-dimensional graphene foam assembly for supercapacitor. <i>RSC Advances</i> , <b>2016</b> , 6, 36307-36313	3.7	9
6	Polyethylenimine mediated reduced graphene oxide based flexible paper for supercapacitor. <i>Energy Storage Materials</i> , <b>2016</b> , 5, 103-110	19.4	24
5	Conjugated assembly of colloidal zinc oxide quantum dots and multiwalled carbon nanotubes for an excellent photosensitive ultraviolet photodetector. <i>Nanotechnology</i> , <b>2016</b> , 27, 355204	3.4	17
4	Highly Dense ZnO Nanowires Grown on Graphene Foam for Ultraviolet Photodetection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 10606-11	9.5	75
3	ZnO quantum dots and graphene based heterostructure for excellent photoelastic and highly sensitive ultraviolet photodetector. <i>RSC Advances</i> , <b>2015</b> , 5, 90838-90846	3.7	21
2	Few-layer graphene/ZnO nanowires based high performance UV photodetector. <i>Nanotechnology</i> , <b>2015</b> , 26, 235703	3.4	71
1	In Situ and Operando Analyses of Reaction Mechanisms in Vanadium Oxides for Li-, Na-, Zn-, and Mg-Ions Batteries. <i>Advanced Materials Technologies</i> , 2100799	6.8	0