

# Buddha Deka Boruah

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

1,828  
citations

279487

23  
h-index

377514

34  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1858  
citing authors

#	ARTICLE	IF	CITATIONS
1	Zinc oxide ultraviolet photodetectors: rapid progress from conventional to self-powered photodetectors. <i>Nanoscale Advances</i> , 2019, 1, 2059-2085.	2.2	215
2	Photo-rechargeable zinc-ion batteries. <i>Energy and Environmental Science</i> , 2020, 13, 2414-2421.	15.6	135
3	Vanadium Dioxide Cathodes for High-Rate Photo-Rechargeable Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2100115.	10.2	127
4	Energy-Efficient Hydrogenated Zinc Oxide Nanoflakes for High-Performance Self-Powered Ultraviolet Photodetector. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 18182-18188.	4.0	111
5	Photo-rechargeable Zinc-Ion Capacitors using V <sub>2</sub> O <sub>5</sub> -Activated Carbon Electrodes. <i>ACS Energy Letters</i> , 2020, 5, 3132-3139.	8.8	106
6	Photo-Rechargeable Zinc-Ion Capacitor Using 2D Graphitic Carbon Nitride. <i>Nano Letters</i> , 2020, 20, 5967-5974.	4.5	106
7	Light Rechargeable Lithium-Ion Batteries Using V <sub>2</sub> O <sub>5</sub> Cathodes. <i>Nano Letters</i> , 2021, 21, 3527-3532.	4.5	99
8	Highly Dense ZnO Nanowires Grown on Graphene Foam for Ultraviolet Photodetection. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 10606-10611.	4.0	95
9	Sandwiched assembly of ZnO nanowires between graphene layers for a self-powered and fast responsive ultraviolet photodetector. <i>Nanotechnology</i> , 2016, 27, 095205.	1.3	85
10	Few-layer graphene/ZnO nanowires based high performance UV photodetector. <i>Nanotechnology</i> , 2015, 26, 235703.	1.3	79
11	Molybdenum Disulfide-Zinc Oxide Photocathodes for Photo-Rechargeable Zinc-Ion Batteries. <i>ACS Nano</i> , 2021, 15, 16616-16624.	7.3	70
12	Flexible Array of Microsupercapacitor for Additive Energy Storage Performance Over a Large Area. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 15864-15872.	4.0	55
13	Doping controlled pyro-phototronic effect in self-powered zinc oxide photodetector for enhancement of photoresponse. <i>Nanoscale</i> , 2018, 10, 3451-3459.	2.8	54
14	Synergistic effect in the heterostructure of ZnCo <sub>2</sub> O <sub>4</sub> and hydrogenated zinc oxide nanorods for high capacitive response. <i>Nanoscale</i> , 2017, 9, 9411-9420.	2.8	47
15	Surface photo-charge effect in doped-ZnO nanorods for high-performance self-powered ultraviolet photodetectors. <i>Nanoscale</i> , 2017, 9, 4536-4543.	2.8	44
16	Vanadium dioxide-zinc oxide stacked photocathodes for photo-rechargeable zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23199-23205.	5.2	41
17	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> , 2018, 1, 1567-1574.	2.5	39
18	Effect of Magnetic Field on Photoresponse of Cobalt Integrated Zinc Oxide Nanorods. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 4771-4780.	4.0	36

#	ARTICLE	IF	CITATIONS
19	Roadmap of in-plane electrochemical capacitors and their advanced integrated systems. <i>Energy Storage Materials</i> , 2019, 21, 219-239.	9.5	30
20	A flexible ternary oxide based solid-state supercapacitor with excellent rate capability. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17552-17559.	5.2	28
21	Polyethylenimine mediated reduced graphene oxide based flexible paper for supercapacitor. <i>Energy Storage Materials</i> , 2016, 5, 103-110.	9.5	27
22	Recent advances in off-grid electrochemical capacitors. <i>Energy Storage Materials</i> , 2021, 34, 53-75.	9.5	26
23	Internal Asymmetric Tandem Supercapacitor for High Working Voltage along with Superior Rate Performance. <i>ACS Energy Letters</i> , 2017, 2, 1720-1728.	8.8	24
24	In Situ and Operando Analyses of Reaction Mechanisms in Vanadium Oxides for Li <sup>+</sup> , Na <sup>+</sup> , Zn <sup>2+</sup> , and Mg <sup>2+</sup> Ions Batteries. <i>Advanced Materials Technologies</i> , 2022, 7, 2100799.	3.0	24
25	ZnO quantum dots and graphene based heterostructure for excellent photoelastic and highly sensitive ultraviolet photodetector. <i>RSC Advances</i> , 2015, 5, 90838-90846.	1.7	23
26	Voltage Generation in Optically Sensitive Supercapacitor for Enhanced Performance. <i>ACS Applied Energy Materials</i> , 2019, 2, 278-286.	2.5	21
27	Photo-Rechargeable Li-Ion Batteries: Device Configurations, Mechanisms, and Materials. <i>ACS Applied Energy Materials</i> , 2022, 5, 7891-7912.	2.5	21
28	Conjugated assembly of colloidal zinc oxide quantum dots and multiwalled carbon nanotubes for an excellent photosensitive ultraviolet photodetector. <i>Nanotechnology</i> , 2016, 27, 355204.	1.3	19
29	Nickel hydroxide coated carbon nanoparticles mediated hybrid three-dimensional graphene foam assembly for supercapacitor. <i>RSC Advances</i> , 2016, 6, 36307-36313.	1.7	14
30	Photocharge-Enhanced Capacitive Response of a Supercapacitor. <i>Energy Technology</i> , 2017, 5, 1356-1363.	1.8	12
31	Zinc oxide quantum dots decorated carbon nanotubes for improved opto-electro-mechanical response. <i>Sensors and Actuators A: Physical</i> , 2017, 267, 351-359.	2.0	7
32	Capacitive behavior of carbon nanotube thin film induced by deformed ZnO microspheres. <i>Nanotechnology</i> , 2017, 28, 395101.	1.3	3
33	Thermo-mechanical behavior of graphene oxide hydrogel. <i>Materials Research Express</i> , 2017, 4, 025006.	0.8	2
34	Visible-Light Augmented Lithium Storage Capacity in a Ruthenium(II) Photosensitizer Conjugated with a diene-Catechol Redox Couple. <i>Chemistry - A European Journal</i> , 0, , .	1.7	2
35	Influence of charge traps in carbon nanodots on gas interaction. <i>Nanotechnology</i> , 2017, 28, 135206.	1.3	1