

Challenges and prospects of 3D micro-supercapacitors

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Citation Report

#	ARTICLE	IF	CITATIONS
1	A Nonaqueous Na ⁺ /K ⁺ Hybrid Micro ^{2D} Supercapacitor with Wide Potential Window and Ultrahigh Areal Energy Density. <i>Batteries and Supercaps</i> , 2019, 2, 918-923.	4.7	30
2	Scalable fabrication of high-performance micro-supercapacitors by embedding thick interdigital microelectrodes into microcavities. <i>Nanoscale</i> , 2019, 11, 19772-19782.	5.6	7
3	Î±-Fe ₂ O ₃ hollow meso ^{2D} microspheres grown on graphene sheets function as a promising counter electrode in dye-sensitized solar cells. <i>RSC Advances</i> , 2019, 9, 24164-24170.	3.6	4
4	Self-Assembly of Integrated Tubular Microsupercapacitors with Improved Electrochemical Performance and Self-Protective Function. <i>ACS Nano</i> , 2019, 13, 8067-8075.	14.6	57
5	One ^{2D} -Step Synthesis of Monodispersed Mesoporous Carbon Nanospheres for High ^{2D} -Performance Flexible Quasi ^{2D} -Solid ^{2D} State Micro ^{2D} Supercapacitors. <i>Small</i> , 2019, 15, e1903836.	10.0	45
6	Laser-Graving-Assisted Fabrication of Foldable Supercapacitors for On-Chip Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42172-42178.	8.0	9
7	A perspective on two-dimensional materials for planar micro-supercapacitors. <i>APL Materials</i> , 2019, 7, .	5.1	28
8	A universal <i>in situ</i> strategy for charging supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15131-15136.	10.3	13
9	On ^{2D} -Chip MXene Microsupercapacitors for AC ^{2D} -Line Filtering Applications. <i>Advanced Energy Materials</i> , 2019, 9, 1901061.	19.5	113
10	Fast Electrochemical Storage Process in Sputtered Nb ₂ O ₅ Porous Thin Films. <i>ACS Nano</i> , 2019, 13, 5826-5832.	14.6	29
11	3D Interdigitated Microsupercapacitors with Record Areal Cell Capacitance. <i>Small</i> , 2019, 15, 1901224.	10.0	27
12	Advances on three ^{2D} -dimensional electrodes for micro ^{2D} -supercapacitors: A mini ^{2D} -review. <i>Informa^{2D}-Materials</i> , 2019, 1, 74-84.	17.3	129
13	A fluorescent conjugated polymer photocatalyst based on Knoevenagel polycondensation for hydrogen production. <i>New Journal of Chemistry</i> , 2019, 43, 7093-7098.	2.8	14
14	Hybridization design of materials and devices for flexible electrochemical energy storage. <i>Energy Storage Materials</i> , 2019, 19, 212-241.	18.0	163
15	Sputtered tungsten nitride films as pseudocapacitive electrode for on chip micro-supercapacitors. <i>Energy Storage Materials</i> , 2019, 20, 243-252.	18.0	65
16	Ionic Liquid-Based Electrolytes for Supercapacitor and Supercapattery. <i>Frontiers in Chemistry</i> , 2019, 7, 272.	3.6	140
17	Two-Dimensional Metallic Niobium Diselenide for Sub-micrometer-Thin Antennas in Wireless Communication Systems. <i>ACS Nano</i> , 2019, 13, 14114-14121.	14.6	28
18	Recent Development of Printed Micro ^{2D} Supercapacitors: Printable Materials, Printing Technologies, and Perspectives. <i>Advanced Materials</i> , 2020, 32, e1805864.	21.0	142

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19	A Network Attack Detection Method Using SDA and Deep Neural Network Based on Internet of Things. International Journal of Wireless Information Networks, 2020, 27, 209-214.	2.7	2
20	Synthesis of porous flower-like Ni-Co-Mo nanostructures on Ni foam for battery-supercapacitor hybrid devices. International Journal of Energy Research, 2020, 44, 2864-2874.	4.5	17
21	3D printing-based cellular microelectrodes for high-performance asymmetric quasi-solid-state micro-pseudocapacitors. Journal of Materials Chemistry A, 2020, 8, 1749-1756.	10.3	35
22	Facile and Scalable Preparation of Ruthenium Oxide-Based Flexible Micro-Supercapacitors. Advanced Energy Materials, 2020, 10, 1903136.	19.5	74
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24	Synthesis of self-assembled micro/nano structured manganese carbonate for high performance, long lifespan asymmetric supercapacitors and investigation of atomic-level intercalation properties of OH ⁻ ions via first principle calculation. Journal of Energy Storage, 2020, 27, 101138.	8.1	53
25	Stretchable Supercapacitors as Emergent Energy Storage Units for Health Monitoring Bioelectronics. Advanced Energy Materials, 2020, 10, 1902769.	19.5	93
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27	Silicon-nanoforest-based solvent-free micro-supercapacitors with ultrahigh spatial resolution via IC-compatible in situ fabrication for on-chip energy storage. Journal of Materials Chemistry A, 2020, 8, 22736-22744.	10.3	12
28	Structural Engineering and Coupling of Two-Dimensional Transition Metal Compounds for Micro-Supercapacitor Electrodes. ACS Central Science, 2020, 6, 1901-1915.	11.3	53
29	Micro-supercapacitors powered integrated system for flexible electronics. Energy Storage Materials, 2020, 32, 402-417.	18.0	47
30	Monolithic Heterogeneous Integration of 3D Radio Frequency L ⁺ C Elements by Self-Rolled-Up Membrane Nanotechnology. Advanced Functional Materials, 2020, 30, 2004034.	14.9	19
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34	Laser Pyrolysis of Imprinted Furan Pattern for the Precise Fabrication of Microsupercapacitor Electrodes. Micromachines, 2020, 11, 746.	2.9	3
35	Perspectives for electrochemical capacitors and related devices. Nature Materials, 2020, 19, 1151-1163.	27.5	1,187
36	Facile Fabrication of Flexible Graphene-Based Micro-Supercapacitors with Ultra-High Areal Performance. ACS Applied Energy Materials, 2020, 3, 8415-8422.	5.1	11

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37	Recent Advances in High-Performance Microbatteries: Construction, Application, and Perspective. <i>Small</i> , 2020, 16, e2003251.	10.0	48
38	3D direct ink writing fabrication of high-performance all-solid-state micro-supercapacitors. <i>Molecular Crystals and Liquid Crystals</i> , 2020, 705, 105-111.	0.9	14
39	Silicon-Based 3D All-Solid-State Micro-Supercapacitor with Superior Performance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43864-43875.	8.0	48
40	3D Bicontinuous Structure of a Pseudocapacitive Ultrathin Shell/Carbon Core: A Novel Electrode for Thin-Film Supercapacitors with High Areal Energy Density. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14711-14717.	6.7	10
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47	Beyond Conventional Activating Methods, a Green Approach for the Synthesis of Biocarbon and Its Supercapacitor Electrode Performance. <i>Energy & Fuels</i> , 2020, 34, 7658-7665.	5.1	67
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56	Wearable Textile-Based Co ²⁺ /Zn Alkaline Microbattery with High Energy Density and Excellent Reliability. <i>Small</i> , 2020, 16, e2000293.	10.0	47
57	A high-energy aqueous on-chip lithium-ion capacitor based on interdigital 3D carbon microelectrode arrays. <i>Journal of Power Sources</i> , 2020, 455, 227987.	7.8	14
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63	Homogeneous Fe ₂ O ₃ coatings on carbon nanotube structures for supercapacitors. <i>Dalton Transactions</i> , 2020, 49, 4136-4145.	3.3	16
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66	Maximizing power generation from ambient stray magnetic fields around smart infrastructures enabling self-powered wireless devices. <i>Energy and Environmental Science</i> , 2020, 13, 1462-1472.	30.8	59
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69	Large Power Amplification in Magneto-Mechano-Electric Harvesters through Distributed Forcing. <i>Advanced Energy Materials</i> , 2020, 10, 1903689.	19.5	50
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74	Laser Scribing of Fluorinated Polyimide Films to Generate Microporous Structures for High-Performance Micro-supercapacitor Electrodes. <i>ACS Applied Energy Materials</i> , 2021, 4, 208-214.	5.1	39
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79	All Types of Flexible Solid-State Supercapacitors. <i>Springer Series in Materials Science</i> , 2021, , 81-117.	0.6	4
80	Exploring the significant applications of Internet of Things (IoT) with 3D printing using advanced materials in medical field. <i>Materials Today: Proceedings</i> , 2021, 45, 4844-4851.	1.8	32
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107	Air-Stable Conductive Polymer Ink for Printed Wearable Micro-Supercapacitors. Small, 2021, 17, e2100956.	10.0	51
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115	Updated Insights into 3D Architecture Electrodes for Micropower Sources. <i>Advanced Materials</i> , 2021, 33, e2103304.	21.0	28
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148	Carbon Nanotubes for Microsupercapacitors. , 2022, , 434-440.		0
149	Design and technology processes used for microsupercapacitors. , 2022, , 215-255.		0
150	Supercapacitors based on electrospun metal oxide nanofibers. , 2022, , 361-393.		2
151	Needle-like NiSi ₂ @MnCoO ₂ core-shell nanoarrays with high charge storage performance for application in hybrid supercapacitors. Journal of Energy Storage, 2022, 47, 103563.	8.1	8
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