Maher F El-Kady

List of Publications by Year
in descending order

41 papers	14,110 citations	126907 33 h-index	265206 42 g-index
43 all docs	43 docs citations	43 times ranked	15186 citing authors

#	Article	IF	Citations
1	Laser Scribing of High-Performance and Flexible Graphene-Based Electrochemical Capacitors. Science, 2012, 335, 1326-1330.	12.6	3,627
2	Design and Mechanisms of Asymmetric Supercapacitors. Chemical Reviews, 2018, 118, 9233-9280.	47.7	2,379
3	Scalable fabrication of high-power graphene micro-supercapacitors for flexible and on-chip energy storage. Nature Communications, 2013, 4, 1475.	12.8	1,592
4	Graphene-based materials for flexible supercapacitors. Chemical Society Reviews, 2015, 44, 3639-3665.	38.1	1,015
5	Graphene for batteries, supercapacitors and beyond. Nature Reviews Materials, 2016, 1, .	48.7	925
6	Towards establishing standard performance metrics for batteries, supercapacitors and beyond. Chemical Society Reviews, 2019, 48, 1272-1341.	38.1	824
7	Engineering three-dimensional hybrid supercapacitors and microsupercapacitors for high-performance integrated energy storage. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4233-4238.	7.1	500
8	3D Freezeâ€Casting of Cellular Graphene Films for Ultrahighâ€Powerâ€Density Supercapacitors. Advanced Materials, 2016, 28, 6719-6726.	21.0	390
9	Highly Ordered Mesoporous CuCo₂O₄ Nanowires, a Promising Solution for High-Performance Supercapacitors. Chemistry of Materials, 2015, 27, 3919-3926.	6.7	353
10	A Simple Route to Porous Graphene from Carbon Nanodots for Supercapacitor Applications. Advanced Materials, 2018, 30, 1704449.	21.0	302
11	Nextâ€Generation Activated Carbon Supercapacitors: A Simple Step in Electrode Processing Leads to Remarkable Gains in Energy Density. Advanced Functional Materials, 2017, 27, 1605745.	14.9	220
12	Direct preparation and processing of graphene/RuO 2 nanocomposite electrodes for high-performance capacitive energy storage. Nano Energy, 2015, 18, 57-70.	16.0	181
13	Thionine Functionalized 3D Graphene Aerogel: Combining Simplicity and Efficiency in Fabrication of a Metalâ€Free Redox Supercapacitor. Advanced Energy Materials, 2018, 8, 1802869.	19.5	153
14	Trilayer Metalâ€"Organic Frameworks as Multifunctional Electrocatalysts for Energy Conversion and Storage Applications. Journal of the American Chemical Society, 2022, 144, 3411-3428.	13.7	142
15	Direct Laser Writing of Graphene Electronics. ACS Nano, 2014, 8, 8725-8729.	14.6	123
16	Boosting the capacitance and voltage of aqueous supercapacitors via redox charge contribution from both electrode and electrolyte. Nano Today, 2017, 15, 15-25.	11.9	108
17	The use of an electrocatalytic redox electrolyte for pushing the energy density boundary of a flexible polyaniline electrode to a new limit. Nano Energy, 2018, 44, 489-498.	16.0	105
18	A molecular cross-linking approach for hybrid metal oxides. Nature Materials, 2018, 17, 341-348.	27.5	90

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19	Ultrathin Grapheneâ€“Protein Supercapacitors for Miniaturized Bioelectronics. Advanced Energy Materials, 2017, 7, 1700358.	19.5	88
20	Triboelectric Nanogenerator versus Piezoelectric Generator at Low Frequency (<4ÂHz): A Quantitative Comparison. IScience, 2020, 23, 101286.	4.1	84
21	An integrated electrochemical device based on earth-abundant metals for both energy storage and conversion. Energy Storage Materials, 2018, 11, 282-293.	18.0	82
22	Flash Converted Graphene for Ultraâ€High Power Supercapacitors. Advanced Energy Materials, 2015, 5, 1500786.	19.5	80
23	Self-Assembly and Cross-Linking of Conducting Polymers into 3D Hydrogel Electrodes for Supercapacitor Applications. ACS Applied Energy Materials, 2020, 3, 923-932.	5.1	73
24	Nile Blue Functionalized Graphene Aerogel as a Pseudocapacitive Negative Electrode Material across the Full pH Range. ACS Nano, 2019, 13, 12567-12576.	14.6	66
25	Asymmetric supercapacitors: An alternative to activated carbon negative electrodes based on earth abundant elements. Materials Today Energy, 2019, 12, 26-36.	4.7	63
26	Synthesis of NiMnO₃/C nano-composite electrode materials for electrochemical capacitors. Nanotechnology, 2016, 27, 315401.	2.6	51
27	Hybrid Transparent PEDOT:PSS Molybdenum Oxide Battery-like Supercapacitors. ACS Applied Energy Materials, 2019, 2, 4629-4639.	5.1	50
28	3D Graphene Network with Covalently Grafted Aniline Tetramer for Ultralongâ€Life Supercapacitors. Advanced Functional Materials, 2021, 31, 2102397.	14.9	48
29	Polyaniline-Lignin Interpenetrating Network for Supercapacitive Energy Storage. Nano Letters, 2021, 21, 9485-9493.	9.1	45
30	All printable snow-based triboelectric nanogenerator. Nano Energy, 2019, 60, 17-25.	16.0	42
31	Cadmium nanoclusters in a protein matrix: Synthesis, characterization, and application in targeted drug delivery and cellular imaging. Nano Research, 2016, 9, 3229-3246.	10.4	40
32	Facile Fabrication of Multivalent VO<i>_x</i>/Graphene Nanocomposite Electrodes for Highâ€Energyâ€Density Symmetric Supercapacitors. Advanced Energy Materials, 2021, 11, 2100768.	19.5	40
33	Graphene/oligoaniline based supercapacitors: Towards conducting polymer materials with high rate charge storage. Energy Storage Materials, 2019, 19, 137-147.	18.0	39
34	Macroporous Graphene Frameworks for Sensing and Supercapacitor Applications. Advanced Functional Materials, 2022, 32, .	14.9	35
35	Embedding hollow Co3O4 nanoboxes into a three-dimensional macroporous graphene framework for high-performance energy storage devices. Nano Research, 2018, 11, 2836-2846.	10.4	31
36	Gold Nanoparticles Decorated Graphene as a High Performance Sensor for Determination of Trace Hydrazine Levels in Water. Electroanalysis, 2018, 30, 1757-1766.	2.9	29

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37	Toward Highâ€Performance Triboelectric Nanogenerators by Engineering Interfaces at the Nanoscale: Looking into the Future Research Roadmap. Advanced Materials Technologies, 2020, 5, 2000520.	5.8	27
38	Exploration of Advanced Electrode Materials for Approaching Highâ€Performance Nickelâ€Based Superbatteries. Small, 2020, 16, e2001340.	10.0	26
39	A wide potential window aqueous supercapacitor based on LiMn2O4â€“rGO nanocomposite. Journal of the Iranian Chemical Society, 2017, 14, 2579-2590.	2.2	15
40	Enhancing cycling stability of tungsten oxide supercapacitor electrodes<i>via</i>a boron cluster-based molecular cross-linking approach. Journal of Materials Chemistry A, 2020, 8, 18015-18023.	10.3	13
41	Fabrication of high power LiNi0.5Mn1.5O4 battery cathodes by nanostructuring of electrode materials. RSC Advances, 2015, 5, 50433-50439.	3.6	12