Maher F El-Kady

List of Publications by Year
in descending order

41	14,110	126858 33	265120 42
papers	citations	h-index	g-index

43	43	43	15186
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Trilayer Metalâ€“Organic Frameworks as Multifunctional Electrocatalysts for Energy Conversion and Storage Applications. Journal of the American Chemical Society, 2022, 144, 3411-3428.	6.6	142
2	Macroporous Graphene Frameworks for Sensing and Supercapacitor Applications. Advanced Functional Materials, 2022, 32, .	7.8	35
3	3D Graphene Network with Covalently Grafted Aniline Tetramer for Ultralongâ€Life Supercapacitors. Advanced Functional Materials, 2021, 31, 2102397.	7.8	48
4	Facile Fabrication of Multivalent VO<i>_x</i>/Graphene Nanocomposite Electrodes for Highâ€Energyâ€Density Symmetric Supercapacitors. Advanced Energy Materials, 2021, 11, 2100768.	10.2	40
5	Polyaniline-Lignin Interpenetrating Network for Supercapacitive Energy Storage. Nano Letters, 2021, 21, 9485-9493.	4.5	45
6	Self-Assembly and Cross-Linking of Conducting Polymers into 3D Hydrogel Electrodes for Supercapacitor Applications. ACS Applied Energy Materials, 2020, 3, 923-932.	2.5	73
7	Triboelectric Nanogenerator versus Piezoelectric Generator at Low Frequency (<4ÂHz): A Quantitative Comparison. IScience, 2020, 23, 101286.	1.9	84
8	Toward Highâ€Performance Triboelectric Nanogenerators by Engineering Interfaces at the Nanoscale: Looking into the Future Research Roadmap. Advanced Materials Technologies, 2020, 5, 2000520.	3.0	27
9	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.	5.2	13
10	Exploration of Advanced Electrode Materials for Approaching Highâ€Performance Nickelâ€Based Superbatteries. Small, 2020, 16, e2001340.	5.2	26
11	Nile Blue Functionalized Graphene Aerogel as a Pseudocapacitive Negative Electrode Material across the Full pH Range. ACS Nano, 2019, 13, 12567-12576.	7.3	66
12	Hybrid Transparent PEDOT:PSS Molybdenum Oxide Battery-like Supercapacitors. ACS Applied Energy Materials, 2019, 2, 4629-4639.	2.5	50
13	All printable snow-based triboelectric nanogenerator. Nano Energy, 2019, 60, 17-25.	8.2	42
14	Graphene/oligoaniline based supercapacitors: Towards conducting polymer materials with high rate charge storage. Energy Storage Materials, 2019, 19, 137-147.	9.5	39
15	Towards establishing standard performance metrics for batteries, supercapacitors and beyond. Chemical Society Reviews, 2019, 48, 1272-1341.	18.7	824
16	Asymmetric supercapacitors: An alternative to activated carbon negative electrodes based on earth abundant elements. Materials Today Energy, 2019, 12, 26-36.	2.5	63
17	A molecular cross-linking approach for hybrid metal oxides. Nature Materials, 2018, 17, 341-348.	13.3	90
18	A Simple Route to Porous Graphene from Carbon Nanodots for Supercapacitor Applications. Advanced Materials, 2018, 30, 1704449.	11.1	302

#	Article	IF	Citations
19	An integrated electrochemical device based on earth-abundant metals for both energy storage and conversion. Energy Storage Materials, 2018, 11, 282-293.	9.5	82
20	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.	8.2	105
21	Embedding hollow Co3O4 nanoboxes into a three-dimensional macroporous graphene framework for high-performance energy storage devices. Nano Research, 2018, 11, 2836-2846.	5.8	31
22	Thionine Functionalized 3D Graphene Aerogel: Combining Simplicity and Efficiency in Fabrication of a Metalâ€Free Redox Supercapacitor. Advanced Energy Materials, 2018, 8, 1802869.	10.2	153
23	Design and Mechanisms of Asymmetric Supercapacitors. Chemical Reviews, 2018, 118, 9233-9280.	23.0	2,379
24	Gold Nanoparticles Decorated Graphene as a High Performance Sensor for Determination of Trace Hydrazine Levels in Water. Electroanalysis, 2018, 30, 1757-1766.	1.5	29
25	Nextâ€Generation Activated Carbon Supercapacitors: A Simple Step in Electrode Processing Leads to Remarkable Gains in Energy Density. Advanced Functional Materials, 2017, 27, 1605745.	7.8	220
26	Ultrathin Grapheneâ€"Protein Supercapacitors for Miniaturized Bioelectronics. Advanced Energy Materials, 2017, 7, 1700358.	10.2	88
27	A wide potential window aqueous supercapacitor based on LiMn2O4â€"rGO nanocomposite. Journal of the Iranian Chemical Society, 2017, 14, 2579-2590.	1.2	15
28	Boosting the capacitance and voltage of aqueous supercapacitors via redox charge contribution from both electrode and electrolyte. Nano Today, 2017, 15, 15-25.	6.2	108
29	Cadmium nanoclusters in a protein matrix: Synthesis, characterization, and application in targeted drug delivery and cellular imaging. Nano Research, 2016, 9, 3229-3246.	5.8	40
30	Graphene for batteries, supercapacitors and beyond. Nature Reviews Materials, 2016, 1, .	23.3	925
31	3D Freezeâ€Casting of Cellular Graphene Films for Ultrahighâ€Powerâ€Density Supercapacitors. Advanced Materials, 2016, 28, 6719-6726.	11.1	390
32	Synthesis of NiMnO₃/C nano-composite electrode materials for electrochemical capacitors. Nanotechnology, 2016, 27, 315401.	1.3	51
33	Flash Converted Graphene for Ultraâ€High Power Supercapacitors. Advanced Energy Materials, 2015, 5, 1500786.	10.2	80
34	Fabrication of high power LiNi0.5Mn1.5O4 battery cathodes by nanostructuring of electrode materials. RSC Advances, 2015, 5, 50433-50439.	1.7	12
35	Highly Ordered Mesoporous CuCo₂O₄ Nanowires, a Promising Solution for High-Performance Supercapacitors. Chemistry of Materials, 2015, 27, 3919-3926.	3.2	353
36	Graphene-based materials for flexible supercapacitors. Chemical Society Reviews, 2015, 44, 3639-3665.	18.7	1,015

#	Article	IF	Citations
37	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.	3.3	500
38	Direct preparation and processing of graphene/RuO 2 nanocomposite electrodes for high-performance capacitive energy storage. Nano Energy, 2015, 18, 57-70.	8.2	181
39	Direct Laser Writing of Graphene Electronics. ACS Nano, 2014, 8, 8725-8729.	7.3	123
40	Scalable fabrication of high-power graphene micro-supercapacitors for flexible and on-chip energy storage. Nature Communications, 2013, 4, 1475.	5.8	1,592
41	Laser Scribing of High-Performance and Flexible Graphene-Based Electrochemical Capacitors. Science, 2012, 335, 1326-1330.	6.0	3,627