

# Maher F El-Kady

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

14,110  
citations

126858

33  
h-index

265120

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. <i>Science</i> , 2012, 335, 1326-1330.	6.0	3,627
2	Design and Mechanisms of Asymmetric Supercapacitors. <i>Chemical Reviews</i> , 2018, 118, 9233-9280.	23.0	2,379
3	Scalable fabrication of high-power graphene micro-supercapacitors for flexible and on-chip energy storage. <i>Nature Communications</i> , 2013, 4, 1475.	5.8	1,592
4	Graphene-based materials for flexible supercapacitors. <i>Chemical Society Reviews</i> , 2015, 44, 3639-3665.	18.7	1,015
5	Graphene for batteries, supercapacitors and beyond. <i>Nature Reviews Materials</i> , 2016, 1, .	23.3	925
6	Towards establishing standard performance metrics for batteries, supercapacitors and beyond. <i>Chemical Society Reviews</i> , 2019, 48, 1272-1341.	18.7	824
7	Engineering three-dimensional hybrid supercapacitors and microsupercapacitors for high-performance integrated energy storage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4233-4238.	3.3	500
8	3D Freezeâ€Casting of Cellular Graphene Films for Ultrahighâ€CPowerâ€CDensity Supercapacitors. <i>Advanced Materials</i> , 2016, 28, 6719-6726.	11.1	390
9	Highly Ordered Mesoporous CuCo <sub>2</sub> O <sub>4</sub> Nanowires, a Promising Solution for High-Performance Supercapacitors. <i>Chemistry of Materials</i> , 2015, 27, 3919-3926.	3.2	353
10	A Simple Route to Porous Graphene from Carbon Nanodots for Supercapacitor Applications. <i>Advanced Materials</i> , 2018, 30, 1704449.	11.1	302
11	Nextâ€CGeneration Activated Carbon Supercapacitors: A Simple Step in Electrode Processing Leads to Remarkable Gains in Energy Density. <i>Advanced Functional Materials</i> , 2017, 27, 1605745.	7.8	220
12	Direct preparation and processing of graphene/RuO <sub>2</sub> nanocomposite electrodes for high-performance capacitive energy storage. <i>Nano Energy</i> , 2015, 18, 57-70.	8.2	181
13	Thionine Functionalized 3D Graphene Aerogel: Combining Simplicity and Efficiency in Fabrication of a Metalâ€CFree Redox Supercapacitor. <i>Advanced Energy Materials</i> , 2018, 8, 1802869.	10.2	153
14	Trilayer Metalâ€COrganic Frameworks as Multifunctional Electrocatalysts for Energy Conversion and Storage Applications. <i>Journal of the American Chemical Society</i> , 2022, 144, 3411-3428.	6.6	142
15	Direct Laser Writing of Graphene Electronics. <i>ACS Nano</i> , 2014, 8, 8725-8729.	7.3	123
16	Boosting the capacitance and voltage of aqueous supercapacitors via redox charge contribution from both electrode and electrolyte. <i>Nano Today</i> , 2017, 15, 15-25.	6.2	108
17	The use of an electrocatalytic redox electrolyte for pushing the energy density boundary of a flexible polyaniline electrode to a new limit. <i>Nano Energy</i> , 2018, 44, 489-498.	8.2	105
18	A molecular cross-linking approach for hybrid metal oxides. <i>Nature Materials</i> , 2018, 17, 341-348.	13.3	90

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19	Ultrathin Graphene-Protein Supercapacitors for Miniaturized Bioelectronics. <i>Advanced Energy Materials</i> , 2017, 7, 1700358.	10.2	88
20	Triboelectric Nanogenerator versus Piezoelectric Generator at Low Frequency (<math>\leq 4\text{ Hz}</math>): A Quantitative Comparison. <i>IScience</i> , 2020, 23, 101286.	1.9	84
21	An integrated electrochemical device based on earth-abundant metals for both energy storage and conversion. <i>Energy Storage Materials</i> , 2018, 11, 282-293.	9.5	82
22	Flash Converted Graphene for Ultra-High Power Supercapacitors. <i>Advanced Energy Materials</i> , 2015, 5, 1500786.	10.2	80
23	Self-Assembly and Cross-Linking of Conducting Polymers into 3D Hydrogel Electrodes for Supercapacitor Applications. <i>ACS Applied Energy Materials</i> , 2020, 3, 923-932.	2.5	73
24	Nile Blue Functionalized Graphene Aerogel as a Pseudocapacitive Negative Electrode Material across the Full pH Range. <i>ACS Nano</i> , 2019, 13, 12567-12576.	7.3	66
25	Asymmetric supercapacitors: An alternative to activated carbon negative electrodes based on earth abundant elements. <i>Materials Today Energy</i> , 2019, 12, 26-36.	2.5	63
26	Synthesis of NiMnO <sub>3</sub> /C nano-composite electrode materials for electrochemical capacitors. <i>Nanotechnology</i> , 2016, 27, 315401.	1.3	51
27	Hybrid Transparent PEDOT:PSS Molybdenum Oxide Battery-like Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019, 2, 4629-4639.	2.5	50
28	3D Graphene Network with Covalently Grafted Aniline Tetramer for Ultralong-Life Supercapacitors. <i>Advanced Functional Materials</i> , 2021, 31, 2102397.	7.8	48
29	Polyaniline-Lignin Interpenetrating Network for Supercapacitive Energy Storage. <i>Nano Letters</i> , 2021, 21, 9485-9493.	4.5	45
30	All printable snow-based triboelectric nanogenerator. <i>Nano Energy</i> , 2019, 60, 17-25.	8.2	42
31	Cadmium nanoclusters in a protein matrix: Synthesis, characterization, and application in targeted drug delivery and cellular imaging. <i>Nano Research</i> , 2016, 9, 3229-3246.	5.8	40
32	Facile Fabrication of Multivalent VO <sub>x</sub> /Graphene Nanocomposite Electrodes for High-Energy-Density Symmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2021, 11, 2100768.	10.2	40
33	Graphene/oligoaniline based supercapacitors: Towards conducting polymer materials with high rate charge storage. <i>Energy Storage Materials</i> , 2019, 19, 137-147.	9.5	39
34	Macroporous Graphene Frameworks for Sensing and Supercapacitor Applications. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	35
35	Embedding hollow Co <sub>3</sub> O <sub>4</sub> nanoboxes into a three-dimensional macroporous graphene framework for high-performance energy storage devices. <i>Nano Research</i> , 2018, 11, 2836-2846.	5.8	31
36	Gold Nanoparticles Decorated Graphene as a High Performance Sensor for Determination of Trace Hydrazine Levels in Water. <i>Electroanalysis</i> , 2018, 30, 1757-1766.	1.5	29

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37	Toward High-Performance Triboelectric Nanogenerators by Engineering Interfaces at the Nanoscale: Looking into the Future Research Roadmap. <i>Advanced Materials Technologies</i> , 2020, 5, 2000520.	3.0	27
38	Exploration of Advanced Electrode Materials for Approaching High-Performance Nickel-Based Superbatteries. <i>Small</i> , 2020, 16, e2001340.	5.2	26
39	A wide potential window aqueous supercapacitor based on LiMn <sub>2</sub> O <sub>4</sub> -rGO nanocomposite. <i>Journal of the Iranian Chemical Society</i> , 2017, 14, 2579-2590.	1.2	15
40	Enhancing cycling stability of tungsten oxide supercapacitor electrodes via a boron cluster-based molecular cross-linking approach. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18015-18023.	5.2	13
41	Fabrication of high power LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> battery cathodes by nanostructuring of electrode materials. <i>RSC Advances</i> , 2015, 5, 50433-50439.	1.7	12