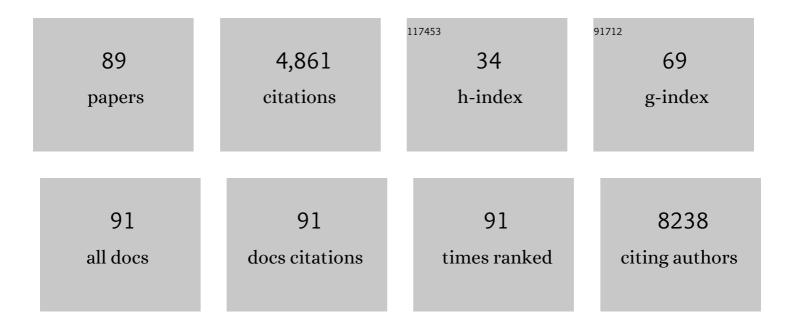
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	3D Macroporous Graphene Frameworks for Supercapacitors with High Energy and Power Densities. ACS Nano, 2012, 6, 4020-4028.	7.3	1,186
2	Solution Chemistry of Self-Assembled Graphene Nanohybrids for High-Performance Flexible Biosensors. ACS Nano, 2010, 4, 2910-2918.	7.3	343
3	High performance of a solid-state flexible asymmetric supercapacitor based on graphene films. Nanoscale, 2012, 4, 4983.	2.8	303
4	Tin-based anode materials with well-designed architectures for next-generation lithium-ion batteries. Journal of Power Sources, 2016, 321, 11-35.	4.0	195
5	3D heterostructured architectures of Co3O4 nanoparticles deposited on porous graphene surfaces for high performance of lithium ion batteries. Nanoscale, 2012, 4, 5924.	2.8	182
6	High-performance supercapacitor based on three-dimensional MoS2/graphene aerogel composites. Composites Science and Technology, 2015, 121, 123-128.	3.8	122
7	Extremely Fast Self-Healable Bio-Based Supramolecular Polymer for Wearable Real-Time Sweat-Monitoring Sensor. ACS Applied Materials & Interfaces, 2019, 11, 46165-46175.	4.0	110
8	Polyoxometalateâ€coupled Graphene via Polymeric Ionic Liquid Linker for Supercapacitors. Advanced Functional Materials, 2014, 24, 7301-7309.	7.8	107
9	Enhanced Pseudocapacitance of Ionic Liquid/Cobalt Hydroxide Nanohybrids. ACS Nano, 2013, 7, 2453-2460.	7.3	99
10	Ultrathin sandwich-like MoS ₂ @N-doped carbon nanosheets for anodes of lithium ion batteries. Nanoscale, 2015, 7, 324-329.	2.8	99
11	Heteroassembled gold nanoparticles with sandwich-immunoassay LSPR chip format for rapid and sensitive detection of hepatitis B virus surface antigen (HBsAg). Biosensors and Bioelectronics, 2018, 107, 118-122.	5.3	91
12	MnO ₂ Nanowire/Biomass-Derived Carbon from Hemp Stem for High-Performance Supercapacitors. Langmuir, 2017, 33, 5140-5147.	1.6	89
13	Hierarchical porous microspheres of the Co3O4@graphene with enhanced electrocatalytic performance for electrochemical biosensors. Biosensors and Bioelectronics, 2017, 89, 612-619.	5.3	85
14	High performance flexible pH sensor based on polyaniline nanopillar array electrode. Journal of Colloid and Interface Science, 2017, 490, 53-58.	5.0	82
15	Highly self-healable and flexible cable-type pH sensors for real-time monitoring of human fluids. Biosensors and Bioelectronics, 2020, 150, 111946.	5.3	78
16	High performance electrochemical glucose sensor based on three-dimensional MoS2/graphene aerogel. Journal of Colloid and Interface Science, 2017, 506, 379-385.	5.0	75
17	Protein-directed assembly of cobalt phosphate hybrid nanoflowers. Journal of Colloid and Interface Science, 2016, 484, 44-50.	5.0	69
18	Facile and fast microwave-assisted fabrication of activated and porous carbon cloth composites with graphene and MnO2 for flexible asymmetric supercapacitors. Electrochimica Acta, 2018, 280, 9-16.	2.6	69

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19	Potentiometric performance of flexible pH sensor based on polyaniline nanofiber arrays. Nano Convergence, 2019, 6, 9.	6.3	69
20	Development of Lateral Flow Assay Based on Size-Controlled Gold Nanoparticles for Detection of Hepatitis B Surface Antigen. Sensors, 2016, 16, 2154.	2.1	61
21	Free-standing molybdenum disulfide/graphene composite paper as a binder- and carbon-free anode for lithium-ion batteries. Journal of Power Sources, 2015, 288, 76-81.	4.0	59
22	Three-Dimensional Expanded Graphene–Metal Oxide Film via Solid-State Microwave Irradiation for Aqueous Asymmetric Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 22364-22371.	4.0	58
23	Microwave-assisted synthesis of highly water-soluble graphene towards electrical DNA sensor. Nanoscale, 2010, 2, 2692.	2.8	56
24	Simultaneous synthesis of NiO/reduced graphene oxide composites by ball milling using bulk Ni and graphite oxide for supercapacitor applications. Journal of Electroanalytical Chemistry, 2017, 786, 14-19.	1.9	52
25	Directed Selfâ€Assembly of Gold Nanoparticles on Grapheneâ€lonic Liquid Hybrid for Enhancing Electrocatalytic Activity. Electroanalysis, 2011, 23, 850-857.	1.5	51
26	Nonstop Monomer-to-Aramid Nanofiber Synthesis with Remarkable Reinforcement Ability. Macromolecules, 2019, 52, 923-934.	2.2	49
27	Flexible and Disposable Sensing Platforms Based on Newspaper. ACS Applied Materials & Interfaces, 2016, 8, 34978-34984.	4.0	46
28	Nanopillar films with polyoxometalate-doped polyaniline for electrochemical detection of hydrogen peroxide. Analyst, The, 2016, 141, 1319-1324.	1.7	44
29	Alternativeâ€Ultrathin Assembling of Exfoliated Manganese Dioxide and Nitrogenâ€Doped Carbon Layers for Highâ€Massâ€Loading Supercapacitors with Outstanding Capacitance and Impressive Rate Capability. Advanced Functional Materials, 2021, 31, 2009632.	7.8	44
30	Fluidâ€Dynamicsâ€Processed Highly Stretchable, Conductive, and Printable Graphene Inks for Realâ€Time Monitoring Sweat during Stretching Exercise. Advanced Functional Materials, 2021, 31, 2011059.	7.8	44
31	Polyoxometalate-grafted graphene nanohybrid for electrochemical detection of hydrogen peroxide and glucose. Journal of Colloid and Interface Science, 2016, 468, 51-56.	5.0	43
32	Scalable Nanopillar Arrays with Layerâ€byâ€Layer Patterned Overt and Covert Images. Advanced Materials, 2014, 26, 6119-6124.	11.1	42
33	Fabrication of Flexible, Redoxable, and Conductive Nanopillar Arrays with Enhanced Electrochemical Performance. ACS Applied Materials & Interfaces, 2016, 8, 22220-22226.	4.0	40
34	Highly Concentrated, Conductive, Defect-free Graphene Ink for Screen-Printed Sensor Application. Nano-Micro Letters, 2021, 13, 87.	14.4	36
35	Sonochemical-assisted synthesis of 3D graphene/nanoparticle foams and their application in supercapacitor. Ultrasonics Sonochemistry, 2015, 22, 422-428.	3.8	35
36	Flexible nanopillar-based electrochemical sensors for genetic detection of foodborne pathogens. Nano Convergence, 2018, 5, 15.	6.3	35

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37	Fast and Scalable Hydrodynamic Synthesis of MnO ₂ /Defect-Free Graphene Nanocomposites with High Rate Capability and Long Cycle Life. ACS Applied Materials & Interfaces, 2018, 10, 35250-35259.	4.0	34
38	Large-Area and 3D Polyaniline Nanoweb Film for Flexible Supercapacitors with High Rate Capability and Long Cycle Life. ACS Applied Energy Materials, 2020, 3, 7746-7755.	2.5	33
39	Controlling Size, Amount, and Crystalline Structure of Nanoparticles Deposited on Graphenes for Highly Efficient Energy Conversion and Storage. ChemSusChem, 2012, 5, 709-715.	3.6	29
40	Scalable Waterâ€Based Production of Highly Conductive 2D Nanosheets with Ultrahigh Volumetric Capacitance and Rate Capability. Advanced Energy Materials, 2018, 8, 1800227.	10.2	26
41	Electrochemical characterization of reduced graphene oxide as an ion-to-electron transducer and application of screen-printed all-solid-state potassium ion sensors. Carbon Letters, 2020, 30, 73-80.	3.3	26
42	Sustainable Boron Nitride Nanosheet-Reinforced Cellulose Nanofiber Composite Film with Oxygen Barrier without the Cost of Color and Cytotoxicity. Polymers, 2018, 10, 501.	2.0	25
43	High density decoration of noble metal nanoparticles on polydopamine-functionalized molybdenum disulphide. Journal of Colloid and Interface Science, 2015, 451, 216-220.	5.0	24
44	Hydraulic Power Manufacturing for Highly Scalable and Stable 2D Nanosheet Dispersions and Their Film Electrode Application. Advanced Functional Materials, 2018, 28, 1802952.	7.8	24
45	3D Hierarchical Nanotopography for On-Site Rapid Capture and Sensitive Detection of Infectious Microbial Pathogens. ACS Nano, 2021, 15, 4777-4788.	7.3	23
46	Rapid one-step synthesis of conductive and porous MnO2/graphene nanocomposite for high performance supercapacitors. Journal of Electroanalytical Chemistry, 2016, 776, 134-138.	1.9	22
47	Fabrication of newspaper-based potentiometric platforms for flexible and disposable ion sensors. Journal of Colloid and Interface Science, 2017, 508, 167-173.	5.0	21
48	Nitrogen-doped carbon-coated molybdenum disulfide nanosheets for high-performance supercapacitor. Synthetic Metals, 2015, 209, 528-533.	2.1	19
49	Antibacterial Nanopillar Array for an Implantable Intraocular Lens. Advanced Healthcare Materials, 2020, 9, e2000447.	3.9	19
50	Preparation of ultrathin defect-free graphene sheets from graphite via fluidic delamination for solid-contact ion-to-electron transducers in potentiometric sensors. Journal of Colloid and Interface Science, 2020, 560, 817-824.	5.0	17
51	Low-current field-assisted assembly of copper nanoparticles for current collectors. Faraday Discussions, 2015, 181, 383-401.	1.6	16
52	Flexible nanopillar-based immunoelectrochemical biosensor for noninvasive detection of Amyloid beta. Nano Convergence, 2020, 7, 29.	6.3	16
53	Graphene growth from reduced graphene oxide by chemical vapour deposition: seeded growth accompanied by restoration. Scientific Reports, 2016, 6, 22653.	1.6	15
54	Scalable exfoliation and activation of graphite into porous graphene using microwaves for high–performance supercapacitors. Journal of Alloys and Compounds, 2019, 770, 458-465.	2.8	15

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55	High-Throughput Production of Heterogeneous RuO2/Graphene Catalyst in a Hydrodynamic Reactor for Selective Alcohol Oxidation. Catalysts, 2019, 9, 25.	1.6	14
56	Dopamine-induced Pt and N-doped carbon@silica hybrids as high-performance anode catalysts for polymer electrolyte membrane fuel cells. RSC Advances, 2014, 4, 42582-42584.	1.7	12
57	Hierarchical MnO2 nanosheet arrays on carbon fiber for high-performance pseudocapacitors. Journal of Electroanalytical Chemistry, 2015, 759, 95-100.	1.9	12
58	Two-Dimensional Heterogeneous Ruthenium–Molybdenum Disulfide Nanocatalyst for the Selective Aerobic Oxidation of Amines. Industrial & Engineering Chemistry Research, 2016, 55, 7043-7047.	1.8	12
59	Development of zinc oxide-based sub-micro pillar arrays for on-site capture and DNA detection of foodborne pathogen. Journal of Colloid and Interface Science, 2020, 563, 54-61.	5.0	12
60	Synthesis of two-dimensional holey MnO2/graphene oxide nanosheets with high catalytic performance for the glycolysis of poly(ethylene terephthalate). Materials Today Communications, 2021, 26, 101857.	0.9	12
61	Largeâ€Scale Fast Fluid Dynamic Processes for the Syntheses of 2D Nanohybrids of Metal Nanoparticleâ€Deposited Boron Nitride Nanosheet and Their Glycolysis of Poly(ethylene terephthalate). Advanced Materials Interfaces, 2020, 7, 2000599.	1.9	11
62	Preparation of Three-Dimensional Co ₃ O ₄ /graphene Composite for High-Performance Supercapacitors. Chemical Engineering Communications, 2017, 204, 723-728.	1.5	10
63	Influence of operating temperature on CO2-NH3 reaction in an aqueous solution. Korean Journal of Chemical Engineering, 2012, 29, 478-482.	1.2	9
64	Facile Functionalization of Colloidal Gold Nanorods by the Specific Binding of an Engineered Protein that Is Preferred over CTAB Bilayers. ChemPlusChem, 2013, 78, 48-51.	1.3	9
65	Highly ordered gold-nanotube films for flow-injection amperometric glucose biosensors. RSC Advances, 2014, 4, 40286.	1.7	8
66	A Batteryless Chronic Wound Monitoring System With 13.56-MHz Energy Harvesting. IEEE Sensors Journal, 2019, 19, 9431-9440.	2.4	8
67	Bioâ€inspired Hierarchical Nanowebs for Green Catalysis. Small, 2015, 11, 4292-4297.	5.2	7
68	All-solid state flexible supercapacitors based on graphene/polymer composites. Materials Chemistry and Physics, 2015, 159, 114-118.	2.0	7
69	Facile and scalable synthesis of nanostructured Fe2O3 using ionic liquid-assisted ball milling for high-performance pseudocapacitors. Solid State Sciences, 2018, 83, 201-206.	1.5	7
70	Materials Engineering of High-Performance Anodes as Layered Composites with Self-Assembled Conductive Networks. Journal of Physical Chemistry C, 2018, 122, 14014-14028.	1.5	7
71	Fluid Dynamics-Induced Surface Engineering for Holey and Stable Metallic MoS ₂ Nanosheets with High Pseudocapacitance and Ultrafast Rate Capability. ACS Applied Energy Materials, 2020, 3, 12078-12087.	2.5	6
72	Fast and facile synthesis of two-dimensional FeIII nanosheets based on fluid-shear exfoliation for highly catalytic glycolysis of poly(ethylene terephthalate). Reaction Chemistry and Engineering, 2021, 6, 297-303.	1.9	6

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73	3D Hierarchical Polyaniline–Metal Hybrid Nanopillars: Morphological Control and Its Antibacterial Application. Nanomaterials, 2021, 11, 2716.	1.9	6
74	Porous Anodic Aluminum Oxide as an Efficient Support for Ruthenium-Catalyzed Aerobic Oxidation of Alcohols and Amines. Industrial & Engineering Chemistry Research, 2019, 58, 23025-23031.	1.8	5
75	High-performance pseudocapacitor electrodes based on the flower-like nickel sulfide coated carbon nanofiber webs. Microelectronic Engineering, 2020, 222, 111205.	1.1	5
76	Compact and porous 3D MnO2/holey graphene films for high areal and volumetric performance in supercapacitors with high-thick electrodes. FlatChem, 2021, 29, 100268.	2.8	5
77	Touchable 3D hierarchically structured polyaniline nanoweb for capture and detection of pathogenic bacteria. Nano Convergence, 2021, 8, 30.	6.3	5
78	Polymeric ionic liquid-promoted high dispersion of Pt nanoparticles on graphene. Materials Letters, 2014, 132, 373-376.	1.3	4
79	A Batteryless Chronic Wound Monitoring System with NFC. , 2019, , .		4
80	Ultrathin MoS2@C layered structure as an anode of lithium ion battery. MRS Advances, 2016, 1, 1021-1027.	0.5	2
81	Highly ordered nanoscale phosphomolybdate-grafted polyaniline/metal hybrid layered structures prepared via secondary sputtering phenomenon as high-performance pseudocapacitor electrodes. Physica Scripta, 2021, 96, 125882.	1.2	2
82	Label-free Electrochemical Biosensor Based on Graphene/Ionic Liquid Nanocomposite for the Detection of Organophosphate Pesticides. Materials Research Society Symposia Proceedings, 2011, 1283, 1.	0.1	1
83	1D and 3D Shaped Ionic Liquid/Aluminum Hydroxide Nanohybrids for Electrochemical Device. , 2007, , .		0
84	Nanopatterning: Scalable Nanopillar Arrays with Layer-by-Layer Patterned Overt and Covert Images (Adv. Mater. 35/2014). Advanced Materials, 2014, 26, 6200-6200.	11.1	0
85	Micropillar array embedded system for single cell encapsulation in hydrogel. Materials Research Society Symposia Proceedings, 2015, 1724, 18.	0.1	0
86	2D Nanosheets: Hydraulic Power Manufacturing for Highly Scalable and Stable 2D Nanosheet Dispersions and Their Film Electrode Application (Adv. Funct. Mater. 43/2018). Advanced Functional Materials, 2018, 28, 1870307.	7.8	0
87	Supercapacitors: Scalable Waterâ€Based Production of Highly Conductive 2D Nanosheets with Ultrahigh Volumetric Capacitance and Rate Capability (Adv. Energy Mater. 18/2018). Advanced Energy Materials, 2018, 8, 1870084.	10.2	0
88	Fluid Dynamic Reactors: Largeâ€Scale Fast Fluid Dynamic Processes for the Syntheses of 2D Nanohybrids of Metal Nanoparticleâ€Deposited Boron Nitride Nanosheet and Their Glycolysis of Poly(ethylene) Tj ETQq0 0 0 r	gBīī.¢Ovei	loade 10 Tf 50
89	Synthesis of MnO2Nanowires by Hydrothermal Method and their Electrochemical Characteristics.	0.2	0 –

Applied Chemistry for Engineering, 2016, 27, 653-658.