Nageh Allam

List of Publications by Year
in descending order

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286 papers	9,662 citations	44069 48 h-index	66911 78 g-index
288 all docs	288 docs citations	288 times ranked	9966 citing authors

#	Article	IF	Citations
1	Unveiling the Optimal Interfacial Synergy of Plasmaâ€Modulated Trimetallic Mnâ€Niâ€Co Phosphides: Tailoring Deposition Ratio for Complementary Water Splitting. Energy and Environmental Materials, 2023, 6, .	12.8	32
2	Investigation of the thermal stability of the antihypertensive drug nebivolol under different conditions: Experimental and computational analysis. Journal of Thermal Analysis and Calorimetry, 2022, 147, 5779-5786.	3.6	8
3	Unraveling the structure and electrochemical supercapacitive performance of novel tungsten bronze synthesized by facile template-free hydrothermal method. Electrochimica Acta, 2022, 401, 139494.	5.2	9
4	Transition Metal Selenide (TMSe) electrodes for electrochemical capacitor devices: A critical review. Journal of Energy Storage, 2022, 47, 103565.	8.1	27
5	A mesoporous ternary transition metal oxide nanoparticle composite for high-performance asymmetric supercapacitor devices with high specific energy. Nanoscale Advances, 2022, 4, 1387-1393.	4.6	18
6	High-performance solid-state supercapacitor based on Ni-Co layered double hydroxide@Co3O4 nanocubes and spongy graphene electrodes. Applied Surface Science, 2022, 587, 152548.	6.1	31
7	Efficient dye-sensitized solar cells based on bioinspired copper redox mediators by tailoring counterions. Journal of Materials Chemistry A, 2022, 10, 4131-4136.	10.3	4
8	Propping the electrochemical impedance spectra at different voltages reveals the untapped supercapacitive performance of materials. Electrochimica Acta, 2022, 408, 139932.	5.2	18
9	Untapped potential of 2D charge density wave chalcogenides as negative supercapacitor electrode materials. RSC Advances, 2022, 12, 6433-6439.	3.6	4
10	Cylindrical C₉₆ Fullertubes: A Highly Active Metalâ€Free O₂â€Reduction Electrocatalyst. Angewandte Chemie - International Edition, 2022, 61, .	13.8	17
11	Towards accurate ionic relaxation algorithms for two-dimensional chalcogenide van der Waals materials - A first-principles study. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 140, 115223.	2.7	0
12	Maximizing the electronic charge carriers in donor-doped hematite under oxygen-rich conditions via doping and co-doping strategies revealed by density functional theory calculations. Journal of Applied Physics, 2022, 131, 155705.	2.5	5
13	Hydrogenated Zinc Oxide as an Alternative Low-Loss Plasmonic Material with Fano Resonance in Near-IR. Journal of Physical Chemistry C, 2022, 126, 8190-8198.	3.1	2
14	â€œSalt-in-Fiberâ€•Electrolyte Enables High-Voltage Solid-State Supercapacitors. ACS Applied Energy Materials, 2022, 5, 6410-6416.	5.1	7
15	Optimized Lithography-Free Fabrication of Sub-100 nm Nb₂O₅ Nanotube Films as Negative Supercapacitor Electrodes: Tuned Oxygen Vacancies and Cationic Intercalation. ACS Applied Materials & Interfaces, 2022, 14, 25545-25555.	8.0	8
16	Symmetric supercapacitor devices based on pristine g-C3N4 mesoporous nanosheets with exceptional stability and wide operating voltage window. Journal of Energy Storage, 2022, 52, 104850.	8.1	16
17	An alternative, low-dissolution counter electrode to prevent deceptive enhancement of HER overpotential. Scientific Reports, 2022, 12, .	3.3	5
18	Facile Surface Treatment of Industrial Stainless Steel Waste Meshes at Mild Conditions to Produce Efficient Oxygen Evolution Catalysts. Energy & Fuels, 2022, 36, 7025-7034.	5.1	19

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19	Deciphering the In Situ Surface Reconstruction of Supercapacitive Bimetallic Ni-Co Oxyphosphide during Electrochemical Activation Using Multivariate Statistical Analyses. ACS Applied Energy Materials, 2022, 5, 7661-7673.	5.1	12
20	Tailor-designed nanowire-structured iron and nickel oxides on platinum catalyst for formic acid electro-oxidation. RSC Advances, 2022, 12, 20395-20402.	3.6	6
21	Deciphering the hype effect of Ni-foam substrate in electrochemical supercapacitors: Is there a way out?. Materials Today Communications, 2022, 32, 103972.	1.9	3
22	FeMoO4 nanoparticles as functional negative electrode material for high performance supercapacitor devices over a wide pH range. Journal of Energy Storage, 2022, 54, 105272.	8.1	13
23	Wellâ€dispersed Au nanoparticles prepared via magnetron sputtering on TiO₂ nanotubes with unprecedentedly high activity for water splitting. Electrochemical Science Advances, 2021, 1, e2000004.	2.8	8
24	Photoelectrocatalytic hydrogen production on ternary Coâ€Pi /Ag/ TiON nanotube array photocatalysts. International Journal of Energy Research, 2021, 45, 6360-6368.	4.5	3
25	Novel Z-Scheme/Type-II CdS@ZnO/g-C3N4 ternary nanocomposites for the durable photodegradation of organics: Kinetic and mechanistic insights. Chemosphere, 2021, 277, 128730.	8.2	58
26	Biocompatible PCL-nanofibers scaffold with immobilized fibronectin and laminin for neuronal tissue regeneration. Materials Science and Engineering C, 2021, 119, 111550.	7.3	32
27	Metal-decorated carbon nanotubes-based sensor array for simultaneous detection of toxic gases. Journal of Environmental Chemical Engineering, 2021, 9, 104534.	6.7	9
28	Novel facet-engineered multi-doped TiO2 mesocrystals with unprecedented visible light photocatalytic hydrogen production. Solar Energy Materials and Solar Cells, 2021, 220, 110825.	6.2	34
29	Structural engineering of Ti-Mn bimetallic phosphide nanotubes for efficient photoelectrochemical water splitting. International Journal of Hydrogen Energy, 2021, 46, 3605-3614.	7.1	11
30	Ge-doped ZnO nanorods grown on FTO for photoelectrochemical water splitting with exceptional photoconversion efficiency. International Journal of Hydrogen Energy, 2021, 46, 209-220.	7.1	36
31	Microbial fuel cells with enhanced bacterial catalytic activity and stability using 3D nanoporous stainless steel anode. Journal of Cleaner Production, 2021, 285, 124816.	9.3	21
32	Natural silk for energy and sensing applications: a review. Environmental Chemistry Letters, 2021, 19, 2141-2155.	16.2	23
33	Anionic/nonionic surfactants for controlled synthesis of highly concentrated sub-50 nm polystyrene spheres. Nanoscale Advances, 2021, 3, 5626-5635.	4.6	6
34	Rb intercalation enhanced the supercapacitive performance of layer-structured MoS₂ as a 2D model material. Materials Advances, 2021, 2, 5052-5056.	5.4	14
35	Recent advances on zeolitic imidazolate -67 metal-organic framework-derived electrode materials for electrochemical supercapacitors. Journal of Energy Storage, 2021, 34, 102195.	8.1	39
36	Coâ€“Cu Bimetallic Metal Organic Framework Catalyst Outperforms the Pt/C Benchmark for Oxygen Reduction. Journal of the American Chemical Society, 2021, 143, 4064-4073.	13.7	175

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37	Superior visible light antimicrobial performance of facet engineered cobalt doped TiO2 mesocrystals in pathogenic bacterium and fungi. Scientific Reports, 2021, 11, 5609.	3.3	32
38	Binder-Free Electrospun Niâ€“Mnâ€“O Nanofibers Embedded in Carbon Shells with Ultrahigh Energy and Power Densities for Highly Stable Next-Generation Energy Storage Devices. Langmuir, 2021, 37, 5161-5171.	3.5	32
39	Mapping the stability of free-jet biogas flames under partially premixed combustion. Energy, 2021, 220, 119749.	8.8	9
40	Enhanced photoelectrochemical water splitting via engineered surface defects of BiPO4 nanorod photoanodes. International Journal of Hydrogen Energy, 2021, 46, 23214-23224.	7.1	19
41	A novel and ultrasensitive electrochemical biosensor based on MnO2-V2O5 nanorods for the detection of the antiplatelet prodrug agent Cilostazol in pharmaceutical formulations. Microchemical Journal, 2021, 164, 105946.	4.5	10
42	Interplay of quantum capacitance with Van der Waals forces, intercalation, co-intercalation, and the number of MoS2 layers. Materials Today Energy, 2021, 20, 100677.	4.7	17
43	Cost-Effective Face Mask Filter Based on Hybrid Composite Nanofibrous Layers with High Filtration Efficiency. Langmuir, 2021, 37, 7492-7502.	3.5	40
44	Unveiling the role of carbon defects in the exceptional narrowing of m-ZrO2 wide-bandgap for enhanced photoelectrochemical water splitting. International Journal of Hydrogen Energy, 2021, 46, 21499-21511.	7.1	5
45	Multiple synergistic effects of Zr-alloying on the phase stability and photostability of black niobium oxide nanotubes as efficient photoelectrodes for solar hydrogen production. Applied Catalysis B: Environmental, 2021, 287, 119961.	20.2	16
46	Ternary Tiâ€“Moâ€“Fe Nanotubes as Efficient Photoanodes for Solar-Assisted Water Splitting. Journal of Physical Chemistry C, 2021, 125, 12504-12517.	3.1	14
47	A facile electrosynthesis approach of Mn-Ni-Co ternary phosphides as binder-free active electrode materials for high-performance electrochemical supercapacitors. Electrochimica Acta, 2021, 380, 138197.	5.2	47
48	Multi-walled vanadium oxide nanotubes modified 3D microporous bioderived carbon as novel electrodes for hybrid capacitive deionization. Separation and Purification Technology, 2021, 266, 118597.	7.9	18
49	Novel silicon bipodal cylinders with controlled resonances and their use as beam steering metasurfaces. Scientific Reports, 2021, 11, 13635.	3.3	0
50	Highly Stable Supercapacitor Devices Based on Three-Dimensional Bioderived Carbon Encapsulated g-C₃N₄ Nanosheets. ACS Applied Energy Materials, 2021, 4, 10344-10355.	5.1	19
51	Toward the Proper Selection of Carbon Electrode Materials for Energy Storage Applications: Experimental and Theoretical Insights. Energy & Fuels, 2021, 35, 13426-13437.	5.1	12
52	Controlled fabrication of mesoporous electrodes with unprecedented stability for water capacitive deionization under harsh conditions in large size cells. Desalination, 2021, 511, 115099.	8.2	18
53	Sensitive Determination of SARS-COV-2 and the Anti-hepatitis C Virus Agent Velpatasvir Enabled by Novel Metalâ€“Organic Frameworks. ACS Omega, 2021, 6, 26791-26798.	3.5	8
54	Growth of high-quality GaN nanowires on p-Si (1 1 1) and their performance in solid state heterojunction solar cells. Solar Energy, 2021, 227, 525-531.	6.1	5

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55	Optimized electrosynthesis approach of Manganese-Nickel- Cobalt chalcogenide nanosheet arrays as binder-free battery materials for asymmetric electrochemical supercapacitors. Electrochimica Acta, 2021, 396, 139191.	5.2	24
56	Supercapattery electrode materials by Design: Plasma-induced defect engineering of bimetallic oxyphosphides for energy storage. Journal of Colloid and Interface Science, 2021, 603, 478-490.	9.4	30
57	Towards Cs-ion supercapacitors: Cs intercalation in polymorph MoS₂ as a model 2D electrode material. Chemical Communications, 2021, 57, 3231-3234.	4.1	18
58	Leakage current reduction in n-GaN/p-Si (100) heterojunction solar cells. Applied Physics Letters, 2021, 118, .	3.3	16
59	Surface engineering of nanotubular ferric oxyhydroxide â€œgoethiteâ€•on platinum anodes for durable formic acid fuel cells. International Journal of Hydrogen Energy, 2021, , .	7.1	16
60	Tin oxide as a promoter for copper@palladium nanoparticles on graphene sheets during ethanol electro-oxidation in NaOH solution. Journal of Molecular Liquids, 2020, 297, 111816.	4.9	8
61	Novel Bi-based photocatalysts with unprecedented visible light-driven hydrogen production rate: Experimental and DFT insights. Chemical Engineering Journal, 2020, 384, 123351.	12.7	46
62	CoFe₂O₄@Carbon Spheres Electrode: A Oneâ€Step Solvothermal Method for Enhancing the Electrochemical Performance of Hybrid Supercapacitors. ChemElectroChem, 2020, 7, 526-534.	3.4	32
63	Facile template-free one-pot room-temperature synthesis of novel m-Bi(OH)CrO4 microspheres. Materials Letters, 2020, 262, 127188.	2.6	20
64	Biogas production enhancement using nanocomposites and its combustion characteristics in a concentric flow slot burner. Experimental Thermal and Fluid Science, 2020, 113, 110014.	2.7	8
65	N-doped carbon quantum dots boost the electrochemical supercapacitive performance and cyclic stability of MoS2. Journal of Energy Storage, 2020, 27, 101078.	8.1	69
66	Eco-friendly facile synthesis of glucoseâ€“derived microporous carbon spheres electrodes with enhanced performance for water capacitive deionization. Desalination, 2020, 477, 114278.	8.2	63
67	Electrochemical Fabrication of Ternary Black Tiâ€Moâ€Ni Oxide Nanotube Arrays for Enhanced Photoelectrochemical Water Oxidation. ChemistrySelect, 2020, 5, 12151-12158.	1.5	7
68	Photophysical performance of Nd-YAG annealed Pt/n-PSi /Pt photovoltaic photodetectors at different laser energy. Optical and Quantum Electronics, 2020, 52, 1.	3.3	0
69	A facile synthesis of zeolitic analcime/spongy graphene nanocomposites as novel hybrid electrodes for symmetric supercapacitors. Journal of Energy Storage, 2020, 32, 101953.	8.1	3
70	Dopant-free hole-transporting polymers for efficient, stable, and hysteresis-less perovskite solar cells. Sustainable Materials and Technologies, 2020, 26, e00226.	3.3	17
71	Emerging nanoporous anodized stainless steel for hydrogen production from solar water splitting. Journal of Cleaner Production, 2020, 274, 122826.	9.3	18
72	Bimetallic Coâ€“Wâ€“S Chalcogenides Confined in N,S-Codoped Porous Carbon Matrix Derived from Metalâ€“Organic Frameworks for Highly Stable Electrochemical Supercapacitors. ACS Applied Energy Materials, 2020, 3, 8064-8074.	5.1	52

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73	Recent Advances in the Regenerative Approaches for Traumatic Spinal Cord Injury: Materials Perspective. ACS Biomaterials Science and Engineering, 2020, 6, 6490-6509.	5.2	34
74	Synthesis of Selfâ€Ordered Tantalumâ€Niobium Mixed Oxide Nanotubes and Their Use for Clean Hydrogen Production. ChemNanoMat, 2020, 6, 1617-1619.	2.8	6
75	Boosting the cyclic stability and supercapacitive performance of graphene hydrogels via excessive nitrogen doping: Experimental and DFT insights. Sustainable Materials and Technologies, 2020, 25, e00206.	3.3	11
76	Comparison between hydrogen production via H2S and H2O splitting on transition metal-doped TiO2 (101) surfaces as potential photoelectrodes. International Journal of Hydrogen Energy, 2020, 45, 26758-26769.	7.1	14
77	Oxygen Vacancyâ€Engineered Tiâ^'Moâ^'Ni Ternary Oxide Nanotubes as Binderâ€Free Supercapacitor Electrodes with Exceptional Potential Window. ChemNanoMat, 2020, 6, 1513-1518.	2.8	13
78	Recent progress in the development of hole-transport materials to boost the power conversion efficiency of perovskite solar cells. Sustainable Materials and Technologies, 2020, 26, e00210.	3.3	18
79	Facile Synthesis of Nanostructured Binary Niâ€“Cu Phosphides as Advanced Battery Materials for Asymmetric Electrochemical Supercapacitors. ACS Applied Energy Materials, 2020, 3, 9305-9314.	5.1	52
80	Temperature-dependent transport properties of CVD-fabricated n-GaN nanorods/p-Si heterojunction devices. RSC Advances, 2020, 10, 33526-33533.	3.6	7
81	Hybrid supercapacitors: A simple electrochemical approach to determine optimum potential window and charge balance. Journal of Power Sources, 2020, 480, 229152.	7.8	45
82	Niobiumâ€“Zirconium Oxynitride Nanotube Arrays for Photoelectrochemical Water Splitting. ACS Applied Nano Materials, 2020, 3, 6078-6088.	5.0	25
83	Fullerene C₇₆ as a novel electrocatalyst for VO²⁺/VO₂⁺ and chlorine evolution inhibitor in all-vanadium redox flow batteries. Chemical Communications, 2020, 56, 7569-7572.	4.1	15
84	Recent advances in the design of cathode materials for Li-ion batteries. RSC Advances, 2020, 10, 21662-21685.	3.6	106
85	Nanocrystalline Cellulose Confined in Amorphous Carbon Fibers as Capacitor Material for Efficient Energy Storage. Journal of Physical Chemistry C, 2020, 124, 7007-7015.	3.1	37
86	Metalâ€“Organic frameworks encapsulated with vanadium-substituted heteropoly acid for highly stable asymmetric supercapacitors. Journal of Energy Storage, 2020, 28, 101292.	8.1	46
87	Comparison between Benzothiadizoleâ€“Thiophene- and Benzothiadizoleâ€“Furan-Based Dâ€“Aâ^'Ïâ€“A Dyes Applied in Dye-Sensitized Solar Cells: Experimental and Theoretical Insights. ACS Omega, 2020, 5, 16856-16864.	3.5	21
88	Highly porous Ba3Ti4Nb4O21 perovskite nanofibers as photoanodes for quasi-solid state dye-sensitized solar cells. Solar Energy, 2020, 206, 413-419.	6.1	10
89	Coaxial nanofibers outperform uniaxial nanofibers for the loading and release of pyrroloquinoline quinone (PQQ) for biomedical applications. Nanoscale Advances, 2020, 2, 3341-3349.	4.6	17
90	Intranasal lipid nanocapsules for systemic delivery of nimodipine into the brain: In vitro optimization and in vivo pharmacokinetic study. Materials Science and Engineering C, 2020, 116, 111236.	7.3	15

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91	An innovative electrochemical platform for the sensitive determination of the hepatitis B inhibitor Entecavir with ionic liquid as a mediator. Journal of Molecular Liquids, 2020, 302, 112498.	4.9	15
92	Recycling of Liâ^'Niâ^'Mnâ^'Co Hydroxide from Spent Batteries to Produce Highâ€Performance Supercapacitors with Exceptional Stability. ChemElectroChem, 2020, 7, 975-982.	3.4	41
93	Novel mineralized electrospun chitosan/PVA/TiO₂ nanofibrous composites for potential biomedical applications: computational and experimental insights. Nanoscale Advances, 2020, 2, 1512-1522.	4.6	29
94	Innovative nanocomposite formulations for enhancing biogas and biofertilizers production from anaerobic digestion of organic waste. Bioresource Technology, 2020, 309, 123350.	9.6	29
95	Refractory plasmonics enabling 20% efficient lead-free perovskite solar cells. Scientific Reports, 2020, 10, 6732.	3.3	24
96	Laser annealing enhanced the photophysical performance of Pt/n-PSi/ZnO/Pt-based photodetectors. Solid-State Electronics, 2020, 171, 107821.	1.4	2
97	Bioactive and Elastic Nanocomposites with Antimicrobial Properties for Bone Tissue Regeneration. ACS Applied Bio Materials, 2020, 3, 3313-3325.	4.6	32
98	Fullerene C₇₆: An Unexplored Superior Electrode Material with Wide Operating Potential Window for Highâ€Performance Supercapacitors. ChemElectroChem, 2020, 7, 1672-1678.	3.4	28
99	Impact of Nanotechnology on Enhanced Oil Recovery: A Mini-Review. Industrial & Engineering Chemistry Research, 2019, 58, 16287-16295.	3.7	133
100	Computational Design of Novel Hydrogen-Doped, Oxygen-Deficient Monoclinic Zirconia with Excellent Optical Absorption and Electronic Properties. Scientific Reports, 2019, 9, 10159.	3.3	26
101	A first-principles roadmap and limits to design efficient supercapacitor electrode materials. Physical Chemistry Chemical Physics, 2019, 21, 17494-17511.	2.8	39
102	Computational Modeling for Biomimetic Sensors. Methods in Molecular Biology, 2019, 2027, 195-210.	0.9	4
103	Recent advances in the use of TiO₂ nanotube powder in biological, environmental, and energy applications. Nanoscale Advances, 2019, 1, 2801-2816.	4.6	73
104	Electrospun Mesoporous Mnâ€“Vâ€“O@C Nanofibers for High-Performance Asymmetric Supercapacitor Devices with High Stability. ACS Sustainable Chemistry and Engineering, 2019, 7, 13471-13480.	6.7	64
105	Low-temperature thermoelectric performance of novel polyaniline/iron oxide composites with superior Seebeck coefficient. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	14
106	Correlation between microstructural defects and photoelectrochemical performance of 1D Tiâ€“Nb composite oxide photoanodes for solar water splitting. International Journal of Hydrogen Energy, 2019, 44, 24418-24429.	7.1	13
107	Electrospun Lead-Free All-Inorganic Double Perovskite Nanofibers for Photovoltaic and Optoelectronic Applications. ACS Applied Nano Materials, 2019, 2, 7085-7094.	5.0	25
108	Untapped Potential of Polymorph MoS₂: Tuned Cationic Intercalation for High-Performance Symmetric Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 33955-33965.	8.0	80

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109	Silkworms as a factory of functional wearable energy storage fabrics. Scientific Reports, 2019, 9, 12649.	3.3	15
110	Unveiling the Synergistic Effect of ZnO Nanoparticles and Surfactant Colloids for Enhanced Oil Recovery. Colloids and Interface Science Communications, 2019, 29, 33-39.	4.1	46
111	Effect of Ni-Ferrite and Ni-Co-Ferrite nanostructures on biogas production from anaerobic digestion. Fuel, 2019, 254, 115673.	6.4	36
112	Robust photoactive nanoadsorbents with antibacterial activity for the removal of dyes. Journal of Hazardous Materials, 2019, 378, 120679.	12.4	33
113	Synergistic effect of silver and adenine on boosting the supercapacitance performance of spongy graphene. Journal of Energy Storage, 2019, 24, 100776.	8.1	4
114	Tinâ€“zinc-oxide nanocomposites (SZO) as promising electron transport layers for efficient and stable perovskite solar cells. Nanoscale Advances, 2019, 1, 2654-2662.	4.6	37
115	First-principles descriptors of CO chemisorption on Ni and Cu surfaces. Physical Chemistry Chemical Physics, 2019, 21, 11476-11487.	2.8	13
116	Eco-friendly, one-step synthesis of cobalt sulfide-decorated functionalized graphene for high-performance supercapacitors. Journal of Energy Storage, 2019, 24, 100760.	8.1	27
117	Ni-free, built-in nanotubular drug eluting stents: Experimental and theoretical insights. Materials Science and Engineering C, 2019, 103, 109750.	7.3	6
118	Asymmetric supercapacitors based on 3D graphene-wrapped V2O5 nanospheres and Fe3O4@3D graphene electrodes with high power and energy densities. Electrochimica Acta, 2019, 310, 58-69.	5.2	99
119	Electrochemical nano-patterning of brass for stable and visible light-induced photoelectrochemical water splitting. International Journal of Hydrogen Energy, 2019, 44, 14588-14595.	7.1	21
120	Black titania nanotubes/spongy graphene nanocomposites for high-performance supercapacitors. RSC Advances, 2019, 9, 12555-12566.	3.6	26
121	Mineralization of electrospun gelatin/CaCO3 composites: A new approach for dental applications. Materials Science and Engineering C, 2019, 100, 655-664.	7.3	20
122	Three-Dimensional Interconnected Binder-Free Mnâ€“Niâ€“S Nanosheets for High Performance Asymmetric Supercapacitor Devices with Exceptional Cyclic Stability. ACS Applied Energy Materials, 2019, 2, 3717-3725.	5.1	88
123	Photoelectrochemical water splitting by defects in nanostructured multinary transition metal oxides. Solar Energy Materials and Solar Cells, 2019, 194, 184-194.	6.2	43
124	Green, single-pot synthesis of functionalized Na/N/P co-doped graphene nanosheets for high-performance supercapacitors. Journal of Electroanalytical Chemistry, 2019, 837, 30-38.	3.8	26
125	A facile electrosynthesis approach of amorphous Mn-Co-Fe ternary hydroxides as binder-free active electrode materials for high-performance supercapacitors. Electrochimica Acta, 2019, 296, 59-68.	5.2	128
126	Experimental and density functional theory insights into the effect of withdrawing ligands on the fluorescence yield of Ru(II)â€based complexes. Applied Organometallic Chemistry, 2019, 33, e4677.	3.5	9

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127	Single-Crystal Electrospun Plasmonic Perovskite Nanofibers. Journal of Physical Chemistry C, 2018, 122, 6846-6851.	3.1	11
128	High-performance nanoporous silicon-based photodetectors. Optik, 2018, 168, 424-431.	2.9	7
129	Mesoporous spinel manganese zinc ferrite for high-performance supercapacitors. Journal of Electroanalytical Chemistry, 2018, 817, 111-117.	3.8	67
130	Smart bi-metallic perovskite nanofibers as selective and reusable sensors of nano-level concentrations of non-steroidal anti-inflammatory drugs. Talanta, 2018, 185, 344-351.	5.5	22
131	On the relationship between rutile/anatase ratio and the nature of defect states in sub-100 nm TiO₂nanostructures: experimental insights. Physical Chemistry Chemical Physics, 2018, 20, 5975-5982.	2.8	23
132	Ultrahigh performance of novel energy-efficient capacitive deionization electrodes based on 3D nanotubular composites. New Journal of Chemistry, 2018, 42, 3560-3567.	2.8	31
133	Ultrathin ALD TiO2 shells for enhanced photoelectrochemical solar fuel generation. Journal of Alloys and Compounds, 2018, 739, 178-183.	5.5	19
134	Recent Advances in the Use of Silicon-Based Photocathodes for Solar Fuel Production. , 2018, , 229-267.		4
135	An engineered nanocomposite for sensitive and selective detection of mercury in environmental water samples. Analytical Methods, 2018, 10, 2526-2535.	2.7	23
136	Defect engineering in 1D Tiâ€“W oxide nanotube arrays and their correlated photoelectrochemical performance. Physical Chemistry Chemical Physics, 2018, 20, 10258-10265.	2.8	13
137	Synthesis and characterization of coreâ€“shell structured M@Pd/SnO₂â€“graphene [M = Co, Ni or Cu] electrocatalysts for ethanol oxidation in alkaline solution. New Journal of Chemistry, 2018, 42, 6144-6160.	2.8	20
138	Wind energy systems: Analysis of the self-starting physics of vertical axis wind turbine. Renewable and Sustainable Energy Reviews, 2018, 81, 1602-1610.	16.4	45
139	Propping the optical and electronic properties of potential photo-sensitizers with different Ï€-spacers: TD-DFT insights. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 188, 237-243.	3.9	27
140	3D spongy graphene-modified screen-printed sensors for the voltammetric determination of the narcotic drug codeine. Biosensors and Bioelectronics, 2018, 101, 90-95.	10.1	58
141	Refractory plasmonics: orientation-dependent plasmonic coupling in TiN and ZrN nanocubes. Physical Chemistry Chemical Physics, 2018, 20, 1881-1888.	2.8	13
142	Unbiased spontaneous solar hydrogen production using stable TiO₂â€“CuO composite nanofiber photocatalysts. RSC Advances, 2018, 8, 37219-37228.	3.6	19
143	Refractory plasmonics boost the performance of thin-film solar cells. Emergent Materials, 2018, 1, 185-191.	5.7	18
144	Unveiling the Effect of the Structure of Carbon Material on the Charge Storage Mechanism in MoS₂-Based Supercapacitors. ACS Omega, 2018, 3, 16301-16308.	3.5	76

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145	Bifunctional Tailoring of Platinum Surfaces with Earth Abundant Iron Oxide Nanowires for Boosted Formic Acid Electro-Oxidation. Journal of Nanotechnology, 2018, 2018, 1-10.	3.4	14
146	Genistein Loaded Nanofibers Protect Spinal Cord Tissue Following Experimental Injury in Rats. Biomedicines, 2018, 6, 96.	3.2	18
147	Novel design of plasmonic and dielectric antireflection coatings to enhance the efficiency of perovskite solar cells. Solar Energy, 2018, 174, 803-814.	6.1	26
148	Unveiling CO adsorption on Cu surfaces: new insights from molecular orbital principles. Physical Chemistry Chemical Physics, 2018, 20, 25892-25900.	2.8	56
149	In Situ Formation of Graphene Stabilizes Zero-Valent Copper Nanoparticles and Significantly Enhances the Efficiency of Photocatalytic Water Splitting. ACS Sustainable Chemistry and Engineering, 2018, 6, 16876-16885.	6.7	30
150	Non-precious co-catalysts boost the performance ofÂTiO2 hierarchical hollow mesoporous spheres inÂsolar fuel cells. International Journal of Hydrogen Energy, 2018, 43, 21219-21230.	7.1	41
151	From Rusting to Solar Power Plants: A Successful Nano-Pattering of Stainless Steel 316L for Visible Light-Induced Photoelectrocatalytic Water Splitting. ACS Sustainable Chemistry and Engineering, 2018, 6, 17352-17358.	6.7	21
152	Front dielectric and back plasmonic wire grating for efficient light trapping in perovskite solar cells. Optical Materials, 2018, 86, 311-317.	3.6	13
153	Semi-transparent perovskite solar cells: unveiling the trade-off between transparency and efficiency. Journal of Materials Chemistry A, 2018, 6, 19696-19702.	10.3	95
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