Kostya K Ostrikov

List of Publications by Year
in descending order

833 papers	33,921 citations	4388 86 h-index	10734 138 g-index
873 all docs	873 docs citations	873 times ranked	26332 citing authors

#	Article	IF	Citations
1	Sustainable Ammonia Synthesis from Nitrogen and Water by Oneâ€Step Plasma Catalysis. Energy and Environmental Materials, 2023, 6, .	12.8	20
2	Plasma-controlled surface wettability: recent advances and future applications. International Materials Reviews, 2023, 68, 82-119.	19.3	29
3	Non-thermal plasma enhances performances of biochar in wastewater treatment and energy storage applications. Frontiers of Chemical Science and Engineering, 2022, 16, 475-483.	4.4	13
4	Monochromatic Blue and Switchable Blueâ€Green Carbon Quantum Dots by Roomâ€Temperature Air Plasma Processing. Advanced Materials Technologies, 2022, 7, 2100586.	5.8	16
5	Fourfold Polarizationâ€Sensitive Photodetector Based on GaTe/MoS₂ van der Waals Heterojunction. Advanced Electronic Materials, 2022, 8, 2100673.	5.1	21
6	Highâ€performance water purification and desalination by solarâ€driven interfacial evaporation and photocatalytic <scp>VOC</scp> decomposition enabled by hierarchical <scp> TiO ₂ â€CuO </scp> nanoarchitecture. International Journal of Energy Research, 2022, 46, 1313-1326.	4.5	21
7	Enhancing Mechanical Energy Transfer of Piezoelectric Supercapacitors. Advanced Materials Technologies, 2022, 7, 2100550.	5.8	5
8	Band Alignment with Selfâ€Assembled 2D Layer of Carbon Derived from Waste to Balance Charge Injection in Perovskite Crystals Based Rigid and Flexible Light Emitting Diodes. Advanced Materials Technologies, 2022, 7, 2100583.	5.8	4
9	Histone lactylation: epigenetic mark of glycolytic switch. Trends in Genetics, 2022, 38, 124-127.	6.7	40
10	Status and prospects of Ohmic contacts on two-dimensional semiconductors. Nanotechnology, 2022, 33, 062005.	2.6	5
11	Upcycle hazard against other hazard: Toxic fluorides from plasma fluoropolymer etching turn novel microbial disinfectants. Journal of Hazardous Materials, 2022, 424, 127658.	12.4	7
12	Insights into amoxicillin degradation in water by non-thermal plasmas. Chemosphere, 2022, 291, 132757.	8.2	21
13	Plasma sprayed thermal barrier coatings: Effects of polyamide additive on injection molding part quality. Journal of Applied Polymer Science, 2022, 139, 51980.	2.6	2
14	Microplasma Band Structure Engineering in Graphene Quantum Dots for Sensitive and Wide-Range pH Sensing. ACS Applied Materials & Interfaces, 2022, 14, 1670-1683.	8.0	30
15	Reduced breakdown voltage for in-liquid plasma discharges using moveable electrodes. Journal Physics D: Applied Physics, 2022, 55, 10LT01.	2.8	2
16	Plasma for biomedical decontamination: from plasma-engineered to plasma-active antimicrobial surfaces. Current Opinion in Chemical Engineering, 2022, 36, 100764.	7.8	20
17	Low-Temperature Plasma for Biology, Hygiene, and Medicine: Perspective and Roadmap. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 127-157.	3.7	64
18	In-package plasma: From reactive chemistry to innovative food preservation technologies. Trends in Food Science and Technology, 2022, 120, 59-74.	15.1	24

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19	Continuous microflow synthesis of fluorescent phosphorus and nitrogen co-doped carbon quantum dots. Chemical Engineering Research and Design, 2022, 178, 395-404.	5.6	13
20	Plasma-electrolytic liquefaction of human waste for biofuels production and recovery of ammonium, chlorine and metals. Chemical Engineering Journal, 2022, 433, 134581.	12.7	7
21	Sustainable nitrogen fixation with nanosecond pulsed spark discharges: insights into free-radical-chain reactions. Green Chemistry, 2022, 24, 1534-1544.	9.0	21
22	Composite Sound-Absorbing Materials Using Electrospun PS Fibrous Membranes and Needle-Punched PET Non-Woven Fabrics. Journal of Fiber Science and Technology, 2022, 78, 18-27.	0.4	0
23	Sustainable Claisen-Schmidt chalcone synthesis catalysed by plasma-recovered MgO nanosheets from seawater. Sustainable Materials and Technologies, 2022, 32, e00394.	3.3	5
24	Recent advances towards aqueous hydrogen peroxide formation in a direct current plasmaâ€“liquid system. High Voltage, 2022, 7, 405-419.	4.7	8
25	Lysine Acetylation, Cancer Hallmarks and Emerging Onco-Therapeutic Opportunities. Cancers, 2022, 14, 346.	3.7	15
26	Green ammonia synthesis using CeO₂/RuO₂ nanolayers on vertical graphene catalyst via electrochemical route in alkaline electrolyte. Nanoscale, 2022, 14, 1395-1408.	5.6	11
27	Plasma-catalytic CO2 hydrogenation to ethane in a dielectric barrier discharge reactor. Journal of CO2 Utilization, 2022, 57, 101882.	6.8	5
28	Entropy generation analysis in supercapacitor modules based on a three-dimensional coupled thermal model. Energy, 2022, 244, 123218.	8.8	6
29	Insights into generation of OH radicals in plasma jets with constant power: The effects of driving voltage and frequency. Vacuum, 2022, 198, 110901.	3.5	21
30	One-step in-situ sprouting high-performance NiCoSxSey bifunctional catalysts for water electrolysis at low cell voltages and high current densities. Chemical Engineering Journal, 2022, 435, 134859.	12.7	24
31	Compositional and crystallographic design of Ni-Co phosphide heterointerfaced nanowires for high-rate, stable hydrogen generation at industry-relevant electrolysis current densities. Nano Energy, 2022, 95, 106989.	16.0	36
32	Mechanisms of atmospheric pressure plasma protection of neuronal cells under simulated ischemic stroke conditions. AIP Advances, 2022, 12, .	1.3	3
33	Aligned Ti3C2TX Aerogel with High Rate Performance, Power Density and Sub-Zero-Temperature Stability. Energies, 2022, 15, 1191.	3.1	6
34	Microfluidic Plasma-Based Continuous and Tunable Synthesis of Agâ€“Au Nanoparticles and Their SERS Properties. Industrial & Engineering Chemistry Research, 2022, 61, 2183-2194.	3.7	8
35	Reduced electric field and gas temperature effects on chemical product dynamics in air surface dielectric barrier discharges: from macro-physical parameters to micro-chemical mechanisms. Physical Chemistry Chemical Physics, 2022, 24, 8940-8949.	2.8	23
36	RbSnX₃ (X = Cl, Br, I): promising lead-free metal halide perovskites for photovoltaics and optoelectronics. RSC Advances, 2022, 12, 7497-7505.	3.6	39

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37	Cold atmospheric plasma for preventing infection of viruses that use ACE2 for entry. Theranostics, 2022, 12, 2811-2832.	10.0	8
38	Plasmaâ€waterâ€based nitrogen fixation: Status, mechanisms, and opportunities. Plasma Processes and Polymers, 2022, 19, .	3.0	26
39	MXene-Based Electrodes for Supercapacitor Energy Storage. Energy & Fuels, 2022, 36, 2390-2406.	5.1	67
40	When Onco-Immunotherapy Meets Cold Atmospheric Plasma: Implications on CAR-T Therapies. Frontiers in Oncology, 2022, 12, 837995.	2.8	2
41	Overcoming Ion Transport Barrier by Plasma Heterointerface Engineering: Epitaxial Titanium Carbonitride on Nitrogenâ€Doped TiO₂for Highâ€Performance Sodiumâ€Ion Batteries. Small, 2022, 18, e2200694.	10.0	11
42	Lithography-free and high-efficiency preparation of black phosphorous devices by direct evaporation through shadow mask. Nanotechnology, 2022, 33, 225201.	2.6	1
43	Customizing the microenvironment of CO₂ electrocatalysis via threeâ€phase interface engineering. SmartMat, 2022, 3, 111-129.	10.7	27
44	Arc and pulsed spark discharge inactivation of pathogenic P. aeruginosa, S. aureus, M. canis, T. mentagrophytes, and C. albicans microorganisms. Environmental Science and Pollution Research, 2022, 29, 56442-56453.	5.3	5
45	Conversion of Catalytically Inert 2D Bismuth Oxide Nanosheets for Effective Electrochemical Hydrogen Evolution Reaction Catalysis via Oxygen Vacancy Concentration Modulation. Nano-Micro Letters, 2022, 14, 90.	27.0	51
46	Two Steps Back, One Leap Forward: Synergistic Energy Conversion in Plasmonic and Plasma Catalysis. ACS Energy Letters, 2022, 7, 300-309.	17.4	7
47	Two-Phase-Interfaced, Graded-Permittivity Titania Electrical Insulation by Atmospheric Pressure Plasmas. ACS Applied Materials & Interfaces, 2022, 14, 1900-1909.	8.0	27
48	Versatile, Rapid, and Plasmaâ€Assisted Synthesis of Cuprous Halide Composites at Room Temperature and Pressure (Adv. Mater. Technol. 4/2022). Advanced Materials Technologies, 2022, 7, .	5.8	0
49	Inhalation of Atmospheric-Pressure Gas Plasma Attenuates Brain Infarction in Rats With Experimental Ischemic Stroke. Frontiers in Neuroscience, 2022, 16, 875053.	2.8	0
50	Enhancing Mechanical Energy Transfer of Piezoelectric Supercapacitors (Adv. Mater. Technol. 4/2022). Advanced Materials Technologies, 2022, 7, .	5.8	0
51	Multidimensional Ni-Co-sulfide heterojunction electrocatalyst for highly efficient overall water splitting. Science China Materials, 2022, 65, 2421-2432.	6.3	16
52	Antimicrobial adhesive films by plasma-enabled polymerisation of m-cresol. Scientific Reports, 2022, 12, 7560.	3.3	6
53	Bioinspired Robust Mechanical Properties for Advanced Materials. Small Structures, 2022, 3, .	12.0	17
54	Surface-induced gas-phase redistribution effects in plasma-catalytic dry reforming of methane: numerical investigation by fluid modeling. Journal Physics D: Applied Physics, 2022, 55, 355201.	2.8	4

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55	Heterostructured Palladiumâ€“Nickel Sulfide on Plasma-Activated Nickel Foil for Robust Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2022, 10, 8064-8074.	6.7	7
56	Anion-kinetics-selective graphene anode and cation-energy-selective MXene cathode for high-performance capacitive deionization. Energy Storage Materials, 2022, 50, 395-406.	18.0	32
57	In-situ engineered heterostructured nickel tellur-selenide nanosheets for robust overall water splitting. Chemical Engineering Journal, 2022, 446, 137297.	12.7	22
58	High-efficiency oxygen evolution catalyzed by Snâ€“Coâ€“Ni phosphide with oriented crystal phases. Journal of Materials Chemistry A, 2022, 10, 13448-13455.	10.3	15
59	Re-carbon, up-carbon, de-carbon: Plasma-electrified roll-to-roll cleaner production of vertical graphenes and syngas from greenhouse gas mixes. Carbon, 2022, 197, 301-310.	10.3	6
60	High-performance CoNb phosphide water splitting electrocatalyst on plasma-defect-engineered carbon cloth. Chemical Engineering Journal, 2022, 446, 137419.	12.7	19
61	Nanoparticle-enhanced multifunctional nanocarbonsâ€”recent advances on electrochemical energy storage applications. Journal Physics D: Applied Physics, 2022, 55, 413001.	2.8	15
62	Emerging technologies for biodiesel production: Processes, challenges, and opportunities. Biomass and Bioenergy, 2022, 163, 106521.	5.7	76
63	A hemicellulose-first approach: one-step conversion of sugarcane bagasse to xylooligosaccharides over activated carbon modified with tandem plasma and acid treatments. Green Chemistry, 2022, 24, 7410-7428.	9.0	6
64	Carbene Ligands Enabled Câ€“N Coupling for Methylamine Electrosynthesis: A Computational Study. Energy & Fuels, 2022, 36, 7213-7218.	5.1	4
65	Multiphase nanosheet-nanowire cerium oxide and nickel-cobalt phosphide for highly-efficient electrocatalytic overall water splitting. Applied Catalysis B: Environmental, 2022, 316, 121678.	20.2	67
66	Plasmacatalytic bubbles using CeO2 for organic pollutant degradation. Chemical Engineering Journal, 2021, 403, 126413.	12.7	79
67	Microsecond pulse gasâ€“liquid discharges in atmospheric nitrogen and oxygen: Discharge mode, stability, and plasma characteristics. Plasma Processes and Polymers, 2021, 18, 2000135.	3.0	21
68	Nanoconfined fusion of g-C3N4 within edge-rich vertically oriented graphene hierarchical networks for high-performance photocatalytic hydrogen evolution utilizing superhydrophillic and superaerophobic responses in seawater. Applied Catalysis B: Environmental, 2021, 280, 119461.	20.2	32
69	Underwater microplasma bubbles for efficient and simultaneous degradation of mixed dye pollutants. Science of the Total Environment, 2021, 750, 142295.	8.0	62
70	Multifunctional solar bamboo straw: Multiscale 3D membrane for self-sustained solar-thermal water desalination and purification and thermoelectric waste heat recovery and storage. Carbon, 2021, 171, 359-367.	10.3	44
71	Structural, electronic and optical properties of lead-free antimony-copper based hybrid double perovskites for photovoltaics and optoelectronics by first principles calculations. Computational Materials Science, 2021, 186, 110009.	3.0	30
72	Degradation of cefixime antibiotic in water by atmospheric plasma bubbles: Performance, degradation pathways and toxicity evaluation. Chemical Engineering Journal, 2021, 421, 127730.	12.7	42

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73	Prediction of room-temperature ferromagnetism and large perpendicular magnetic anisotropy in a planar hypercoordinate FeB₃monolayer. Nanoscale Horizons, 2021, 6, 43-48.	8.0	50
74	Coupling bimetallic Ni-Fe catalysts and nanosecond pulsed plasma for synergistic low-temperature CO2 methanation. Chemical Engineering Journal, 2021, 420, 127693.	12.7	56
75	Exploring Aluminumâ€Ion Insertion into Magnesiumâ€Doped Manjiroite (MnO₂) Nanorods in Aqueous Solution. ChemElectroChem, 2021, 8, 1048-1054.	3.4	9
76	Nanocarbon-Enhanced 2D Photoelectrodes: A New Paradigm in Photoelectrochemical Water Splitting. Nano-Micro Letters, 2021, 13, 24.	27.0	62
77	Effect of the surface oxide layer on the stability of black phosphorus. Applied Surface Science, 2021, 537, 147850.	6.1	21
78	Rejection of harsh pH saline solutions using graphene membranes. Carbon, 2021, 171, 240-247.	10.3	9
79	Microbial decontamination of chicken using atmospheric plasma bubbles. Plasma Processes and Polymers, 2021, 18, .	3.0	22
80	Controllable synthesis of SnS₂flakes and MoS₂/SnS₂heterostructures by confined-space chemical vapor deposition. CrystEngComm, 2021, 23, 2563-2571.	2.6	8
81	Plasma-engineered bifunctional cobaltâ€“metal organic framework derivatives for high-performance complete water electrolysis. Nanoscale, 2021, 13, 6201-6211.	5.6	14
82	Sustainable plasma-catalytic bubbles for hydrogen peroxide synthesis. Green Chemistry, 2021, 23, 2977-2985.	9.0	42
83	Application of Plasma-Printed Paper-Based SERS Substrate for Cocaine Detection. Sensors, 2021, 21, 810.	3.8	23
84	One-reactor vacuum and plasma synthesis of transparent conducting oxide nanotubes and nanotrees: from single wire conductivity to ultra-broadband perfect absorbers in the NIR. Nanoscale, 2021, 13, 13882-13895.	5.6	4
85	Rapid synthesis of multifunctional Î²-cyclodextrin nanospheres as alkali-responsive nanocarriers and selective antibiotic adsorbents. Chemical Communications, 2021, 57, 1161-1164.	4.1	11
86	Nb-doped layered FeNi phosphide nanosheets for highly efficient overall water splitting under high current densities. Journal of Materials Chemistry A, 2021, 9, 9918-9926.	10.3	47
87	Uniform and stable plasma reactivity: Effects of nanosecond pulses and oxygen addition in atmospheric-pressure dielectric barrier discharges. Journal of Applied Physics, 2021, 129, .	2.5	20
88	Isolation and Detection of Exosomes Using Fe₂O₃ Nanoparticles. ACS Applied Nano Materials, 2021, 4, 1175-1186.	5.0	41
89	Partial sulfur vacancies created by carbonâ€“nitrogen deposition of MoS₂ for high-performance overall electrocatalytic water splitting. Nanoscale, 2021, 13, 14506-14517.	5.6	21
90	Exploring Aluminumâ€Ion Insertion into Magnesiumâ€Doped Manjiroite (MnO 2) Nanorods in Aqueous Solution. ChemElectroChem, 2021, 8, 995-995.	3.4	0

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91	Effects of Al substitution by Si in Ti3AlC2 nanolaminate. Scientific Reports, 2021, 11, 3410.	3.3	27
92	Space charge effects on radiative ultrashort laserâ€plasma interactions: Relativistic fluid model. Contributions To Plasma Physics, 2021, 61, e202100003.	1.1	1
93	Novel technique using cold atmospheric plasma coupled with air-polishing for the treatment of titanium discs grown with biofilm: An in-vitro study. Dental Materials, 2021, 37, 359-369.	3.5	11
94	Non-local Quantum Plasmon Resonance in Ultra-small Silver Nanoparticles. Plasmonics, 2021, 16, 1261-1267.	3.4	1
95	Efficiency enhancement of low-cost metal free dye sensitized solar cells via non-thermal atmospheric pressure plasma surface treatment. Solar Energy, 2021, 215, 367-374.	6.1	13
96	Utilization of plasma in water desalination and purification. Desalination, 2021, 500, 114903.	8.2	27
97	Ultrathin HfAlO ferroelectrics enhancing electron transport and perovskite solar cell performance. Journal of Materials Research, 2021, 36, 1855-1865.	2.6	2
98	Facile synthesis of high-performance indium nanocrystals for selective CO2-to-formate electroreduction. Energy Conversion and Management, 2021, 231, 113847.	9.2	23
99	Controllable Epitaxial Growth of Largeâ€Area MoS₂/WS₂ Vertical Heterostructures by Confinedâ€Space Chemical Vapor Deposition. Small, 2021, 17, e2007312.	10.0	37
100	Development of a battery-operated floating-electrode dielectric barrier discharge plasma device and its characteristics. Plasma Science and Technology, 2021, 23, 064008.	1.5	8
101	More from Less but Precise: Industry-relevant Pseudocapacitance by Atomically-precise Mass-loading MnO2 within Multifunctional MXene Aerogel. Journal of Power Sources, 2021, 492, 229639.	7.8	45
102	Colorimetric quantification of aqueous hydrogen peroxide in the DC plasma-liquid system. Plasma Science and Technology, 2021, 23, 055504.	1.5	4
103	Cold atmospheric plasma coupled with air abrasion in liquid medium for the treatment of peri-implantitis model grown with a complex human biofilm: an in vitro study. Clinical Oral Investigations, 2021, 25, 6633-6642.	3.0	7
104	Trimetallic Octahedral Niâ€“Coâ€“W Phosphoxide Sprouted from Plasma-Defect-Engineered Niâ€“Co Support for Ultrahigh-Performance Electrocatalytic Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2021, 9, 7454-7465.	6.7	21
105	Atmospheric-pressure non-equilibrium plasmas for effective abatement of pathogenic biological aerosols. Plasma Sources Science and Technology, 2021, 30, 053001.	3.1	25
106	Hybrid participation options to mitigate discrimination and maximise productivity in post-COVID higher education and research workplaces. Physical and Engineering Sciences in Medicine, 2021, 44, 339-339.	2.4	1
107	Goldâ€“Carbon Nanocomposites for Environmental Contaminant Sensing. Micromachines, 2021, 12, 719.	2.9	11
108	Electronic, mechanical, optical and photocatalytic properties of perovskite RbSr2Nb3O10 compound. Journal of Alloys and Compounds, 2021, 867, 159077.	5.5	31

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109	Epithelial-to-Mesenchymal Transition Enhances Cancer Cell Sensitivity to Cytotoxic Effects of Cold Atmospheric Plasmas in Breast and Bladder Cancer Systems. Cancers, 2021, 13, 2889.	3.7	35
110	Visualization of gold nanoparticles formation in DC plasma-liquid systems. Plasma Science and Technology, 2021, 23, 075504.	1.5	3
111	Controllable synthesis of WS2(1-x)Se2x monolayers with fast photoresponse by a facile chemical vapor deposition strategy. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 269, 115176.	3.5	12
112	Plasmaâ€activated medium induces apoptosis in chemotherapyâ€resistant ovarian cancer cells: High selectivity and synergy with carboplatin. Plasma Processes and Polymers, 2021, 18, 2100074.	3.0	21
113	Microplasma-Tunable Graphene Quantum Dots for Ultrasensitive and Selective Detection of Cancer and Neurotransmitter Biomarkers. ACS Applied Materials & Interfaces, 2021, 13, 34572-34583.	8.0	21
114	Future antiviral polymers by plasma processing. Progress in Polymer Science, 2021, 118, 101410.	24.7	31
115	Gasâ€phase peroxynitrite generation using dielectric barrier discharge at atmospheric pressure: A prospective sterilizer. Plasma Processes and Polymers, 2021, 18, e2100016.	3.0	17
116	Functionâ€Targeted Lanthanideâ€Anchored Polyoxometalateâ€“Cyclodextrin Assembly: Discriminative Sensing of Inorganic Phosphate and Organophosphate. Advanced Functional Materials, 2021, 31, 2104572.	14.9	25
117	Up-conversion hybrid nanomaterials for light- and heat-driven applications. Progress in Materials Science, 2021, 121, 100838.	32.8	34
118	Microfluidic plasmas: Novel technique for chemistry and chemical engineering. Chemical Engineering Journal, 2021, 417, 129355.	12.7	56
119	Plasma synthesis of Pt/g-C3N4 photocatalysts with enhanced photocatalytic hydrogen generation. Journal of Alloys and Compounds, 2021, 873, 159871.	5.5	51
120	Focused Plasma- and Pure Water-Enabled, Electrode-Emerged Nanointerfaced NiCo Hydroxideâ€“Oxide for Robust Overall Water Splitting. ACS Applied Materials & Interfaces, 2021, 13, 45566-45577.	8.0	15
121	Towards single electron transistor-based photon detection with microplasma-enabled graphene quantum dots. Nanotechnology, 2021, 32, 50LT01.	2.6	5
122	Multi-Modal Biological Destruction by Cold Atmospheric Plasma: Capability and Mechanism. Biomedicines, 2021, 9, 1259.	3.2	20
123	Single and dual-gate organic field-effect transistors based on diketopyrrolopyrrole-diethienothiophene polymers: performance modulation via dielectric interfaces. Materials Research Express, 2021, 8, 096301.	1.6	1
124	Mechanistic Insight in Surface Nanotopography Driven Cellular Migration. ACS Biomaterials Science and Engineering, 2021, 7, 4921-4932.	5.2	2
125	Photo-electric capacitive deionization enabled by solar-driven nano-ionics on the edges of plasma-made vertical graphenes. Chemical Engineering Journal, 2021, 422, 130156.	12.7	13
126	Single-step synthesis of TiO2/WO3â˜’ hybrid nanomaterials in ethanoic acid: Structure and photoluminescence properties. Applied Surface Science, 2021, 562, 150180.	6.1	8

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127	Sustainable ammonia production by non-thermal plasmas: Status, mechanisms, and opportunities. Chemical Engineering Journal, 2021, 421, 129544.	12.7	63
128	Surface-dominant pseudocapacitive supercapacitors with high specific energy and power for energy storage. Journal of Energy Storage, 2021, 42, 103084.	8.1	22
129	CO2 reforming of CH4 in single and double dielectric barrier discharge reactors: Comparison of discharge characteristics and product distribution. Journal of CO2 Utilization, 2021, 53, 101703.	6.8	14
130	Power-to-decarbonization: Mesoporous carbon-MgO nanohybrid derived from plasma-activated seawater salt-loaded biomass for efficient CO2 capture. Journal of CO2 Utilization, 2021, 53, 101711.	6.8	14
131	Phase change material enhanced sustained and energy-efficient solar-thermal water desalination. Applied Energy, 2021, 301, 117463.	10.1	35
132	Microplasma nanoengineering of emission-tuneable colloidal nitrogen-doped graphene quantum dots as smart environmental-responsive nanosensors and nanothermometers. Carbon, 2021, 185, 501-513.	10.3	18
133	Bimetalâ€“Organic Frameworks from In Situ-Activated NiFe Foam for Highly Efficient Water Splitting. ACS Sustainable Chemistry and Engineering, 2021, 9, 1826-1836.	6.7	38
134	Bidirectional doping of two-dimensional thin-layer transition metal dichalcogenides using soft ammonia plasma. Nanoscale, 2021, 13, 15278-15284.	5.6	5
135	Polyoxometalates (POMs): from electroactive clusters to energy materials. Energy and Environmental Science, 2021, 14, 1652-1700.	30.8	184
136	A thermally insulating vermiculite nanosheetâ€“epoxy nanocomposite paint as a fire-resistant wood coating. Nanoscale Advances, 2021, 3, 4235-4243.	4.6	16
137	Interactions of plasma-activated water with biofilms: inactivation, dispersal effects and mechanisms of action. Npj Biofilms and Microbiomes, 2021, 7, 11.	6.4	88
138	Long-lived species in plasma-activated water generated by an AC multi-needle-to-water discharge: effects of gas flow on chemical reactions. Journal Physics D: Applied Physics, 2021, 54, 065201.	2.8	53
139	High performance IGZO-based phototransistors by BN/BP interface engineering. Nanotechnology, 2021, 32, 025201.	2.6	2
140	Vacancy defect engineering of BiVO₄photoanodes for photoelectrochemical water splitting. Nanoscale, 2021, 13, 17989-18009.	5.6	61
141	Etching and annealing treatment to improve the plasma-deposited SiOx film adhesion force. Surface and Coatings Technology, 2021, 427, 127840.	4.8	21
142	Bifunctional Catalytic Cooperativity on Nanoedge: Oriented Ceâ€“Fe Bimetallic Fenton Electrocatalysts for Organic Pollutant Control. ACS ES&T Engineering, 2021, 1, 1618-1632.	7.6	16
143	Energy absorbancy and freezing-temperature tunability of NaCl solutions during ice formation. Journal of Molecular Liquids, 2021, 344, 117928.	4.9	6
144	Controllable Polarization and Doping in Ferroelectric In₂Se₃ Monolayers and Heterobilayers via Intrinsic Defect Engineering. Journal of Physical Chemistry C, 2021, 125, 24648-24654.	3.1	12

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145	Liquid-phase methane bubble plasma discharge for heavy oil processing: Insights into free radicals-induced hydrogenation. Energy Conversion and Management, 2021, 250, 114896.	9.2	18
146	Ultra-small gold nanoclusters assembled on plasma polymer-modified zeolites: a multifunctional nanohybrid with anti-haemorrhagic and anti-inflammatory properties. Nanoscale, 2021, 13, 19936-19945.	5.6	7
147	Photoluminescence mechanism of carbon dots: triggering high-color-purity red fluorescence emission through edge amino protonation. Nature Communications, 2021, 12, 6856.	12.8	192
148	The Ag⁺ Reduction Process in a Plasma Electrochemical System Tuned by the pH Value. Journal of the Electrochemical Society, 2021, 168, 123508.	2.9	4
149	Nanosecond pulse plasma dry reforming of natural gas. Catalysis Today, 2020, 351, 103-112.	4.4	22
150	Bi-metallic nitroxide nanodot-decorated tri-metallic sulphide nanosheets by on-electrode plasma-hydrothermal sprouting for overall water splitting. Applied Catalysis B: Environmental, 2020, 261, 118254.	20.2	72
151	Capacitive deionization with nitrogen-doped highly ordered mesoporous carbon electrodes. Chemical Engineering Journal, 2020, 380, 122514.	12.7	122
152	Multiscale Plasmaâ€Catalytic Onâ€Surface Assembly. Small, 2020, 16, 1903184.	10.0	8
153	Plasma-enabled catalyst-free conversion of ethanol to hydrogen gas and carbon dots near room temperature. Chemical Engineering Journal, 2020, 382, 122745.	12.7	63
154	Mode transition and plasma characteristics of nanosecond pulse gasâ€“liquid discharge: Effect of grounding configuration. Plasma Processes and Polymers, 2020, 17, 1900146.	3.0	29
155	Hierarchical porous bimetal-sulfide bi-functional nanocatalysts for hydrogen production by overall water electrolysis. Journal of Colloid and Interface Science, 2020, 560, 426-435.	9.4	38
156	Highly stable two-dimensional gold selenide with large in-plane anisotropy and ultrahigh carrier mobility. Nanoscale Horizons, 2020, 5, 366-371.	8.0	28
157	Nanoconfined Synthesis of Nitrogen-Rich Metal-Free Mesoporous Carbon Nitride Electrocatalyst for the Oxygen Evolution Reaction. ACS Applied Energy Materials, 2020, 3, 1439-1447.	5.1	29
158	Plasma-digital nexus: plasma nanotechnology for the digital manufacturing age. Reviews of Modern Plasma Physics, 2020, 4, 1.	4.1	16
159	Low-Temperature CO₂ Methanation: Synergistic Effects in Plasma-Ni Hybrid Catalytic System. ACS Sustainable Chemistry and Engineering, 2020, 8, 1888-1898.	6.7	54
160	From nanoparticles to nanofilms: exploring effects of Zn addition for nanostructure modification and photoluminescence intensification of MoO_{3â^'x} nanomaterials. Journal Physics D: Applied Physics, 2020, 53, 095101.	2.8	3
161	Controllable Synthesis of Crystalline ReS_{2(1â^'}_x₎Se₂_x Monolayers on Amorphous SiO₂/Si Substrates with Fast Photoresponse. Advanced Optical Materials, 2020, 8, 1901415.	7.3	23
162	Nanohybrid TiN/Vertical graphene for high-performance supercapacitor applications. Energy Storage Materials, 2020, 26, 138-146.	18.0	54

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163	A zinc bromine â€œsupercapatteryâ€•system combining triple functions of capacitive, pseudocapacitive and battery-type charge storage. Materials Horizons, 2020, 7, 495-503.	12.2	54
164	Temperature dependence of pattern transitions on water surface in contact with DC microplasmas. Plasma Science and Technology, 2020, 22, 055404.	1.5	6
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