Zdenek Sofer

List of Publications by Year
in descending order

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529 papers	24,550 citations	6592 79 h-index	14156 128 g-index
551 all docs	551 docs citations	551 times ranked	25048 citing authors

#	Article	IF	Citations
1	Highly exfoliated NiPS3 nanosheets as efficient electrocatalyst for high yield ammonia production. Chemical Engineering Journal, 2022, 430, 132649.	6.6	17
2	Enhanced voltammetric performance of sensors based on oxidized 2D layered black phosphorus. Talanta, 2022, 238, 123036.	2.9	3
3	Synthesis and Applications of Graphene Oxide. Materials, 2022, 15, 920.	1.3	121
4	Simultaneous microwave-assisted reduction and B/N co-doping of graphene oxide for selective recognition of VOCs. Journal of Materials Chemistry C, 2022, 10, 3307-3317.	2.7	5
5	Prospective advances in MXene inks: screen printable sediments for flexible micro-supercapacitor applications. Journal of Materials Chemistry A, 2022, 10, 4533-4557.	5.2	38
6	Dealloying layered PdBi₂ nanoflakes to palladium hydride leads to enhanced electrocatalytic N₂ reduction. Journal of Materials Chemistry A, 2022, 10, 11904-11916.	5.2	6
7	Exfoliated Fe3GeTe2 and Ni3GeTe2 materials as water splitting electrocatalysts. FlatChem, 2022, 32, 100334.	2.8	11
8	Allâ€Solutionâ€Processed Van der Waals Heterostructures for Waferâ€Scale Electronics. Advanced Materials, 2022, 34, e2106110.	11.1	43
9	Energetic Au ion beam implantation of ZnO nanopillars for optical response modulation. Journal Physics D: Applied Physics, 2022, 55, 215101.	1.3	2
10	Biohybrid Micro- and Nanorobots for Intelligent Drug Delivery. Cyborg and Bionic Systems, 2022, 2022, .	3.7	28
11	Fine-tuning the functionality of reduced graphene oxide via bipolar electrochemistry in freestanding 2D reaction layers. Carbon, 2022, 191, 439-447.	5.4	8
12	InSe:Ge-doped InSe van der Waals heterostructure to enhance photogenerated carrier separation for self-powered photoelectrochemical-type photodetectors. Nanoscale, 2022, 14, 5412-5424.	2.8	9
13	Microstructural modifications induced in Si⁺-implanted yttria-stabilised zirconia: a combined RBS-C, XRD and Raman investigation. Physical Chemistry Chemical Physics, 2022, 24, 6290-6301.	1.3	0
14	Sulfonated NbS₂-based proton-exchange membranes for vanadium redox flow batteries. Nanoscale, 2022, 14, 6152-6161.	2.8	8
15	High-Entropy NASICON Phosphates (Na₃M₂(PO₄)₃ and) Tj ETQq1 1 0.784314 rgB Inorganic Chemistry, 2022, 61, 4092-4101.	1.9	23
16	Simple Bottom-Up Synthesis of Bismuthene Nanostructures with a Suitable Morphology for Competitive Performance in the Electrocatalytic Nitrogen Reduction Reaction. Inorganic Chemistry, 2022, 61, 5524-5538.	1.9	9
17	2D Heterostructures for Highly Efficient Photodetectors: From Advanced Synthesis to Characterizations, Mechanisms, and Device Applications. Advanced Photonics Research, 2022, 3, .	1.7	13
18	Synthesis of Magnesium Phosphorous Trichalcogenides and Applications in Photoelectrochemical Water Splitting. Small, 2022, 18, e2200355.	5.2	8

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19	Transition metal dichalcogenides as catalysts for the hydrogen evolution reaction: The emblematic case of â€œinertâ€•ZrSe₂ as catalyst for electrolyzers. Nano Select, 2022, 3, 1069-1081.	1.9	6
20	Photomodification of benzyl germanane with group 6 metal carbonyls. FlatChem, 2022, 33, 100354.	2.8	2
21	Flexible, ultralight, and high-energy density electrochemical capacitors using sustainable materials. Electrochimica Acta, 2022, 415, 140239.	2.6	12
22	Topochemical Transformation of Two-Dimensional VSe₂ into Metallic Nonlayered VO₂ for Water Splitting Reactions in Acidic and Alkaline Media. ACS Nano, 2022, 16, 351-367.	7.3	23
23	PtSe₂ on a reduced graphene oxide foil for the alkaline hydrogen evolution reaction. Materials Advances, 2022, 3, 4348-4358.	2.6	6
24	The multi-energetic Au ion implantation of graphene oxide and polymers. EPJ Web of Conferences, 2022, 261, 02006.	0.1	2
25	Electroactive nanocarbon materials as signaling tags for electrochemical PCR. Talanta, 2022, 245, 123479.	2.9	2
26	Synthesis, characterisation, and feasibility studies on the use of vanadium tellurate(<scp>vi</scp>) as a cathode material for aqueous rechargeable Zn-ion batteries. RSC Advances, 2022, 12, 12211-12218.	1.7	2
27	Layered selenophosphate HgPSe₃ single crystals: a new candidate for X-ray to visible light photodetectors. Journal of Materials Chemistry C, 2022, 10, 8834-8844.	2.7	2
28	Electromagnetic Interference Shielding by Reduced Graphene Oxide Foils. ACS Applied Nano Materials, 2022, 5, 6792-6800.	2.4	13
29	Stimuli-responsive of magnetic metal-organic frameworks (MMOF): Synthesis, dispersion control, and its tunability into polymer matrix under the augmented-magnetic field for H2 separation and CO2 capturing applications. International Journal of Hydrogen Energy, 2022, 47, 20166-20175.	3.8	4
30	Coâ€doping Graphene with B and N Heteroatoms for Application in Energy Conversion and Storage Devices. ChemNanoMat, 2022, 8, .	1.5	8
31	Layer-Dependent Interlayer Antiferromagnetic Spin Reorientation in Air-Stable Semiconductor CrSBr. ACS Nano, 2022, 16, 11876-11883.	7.3	22
32	Oleic acid/oleylamine ligand pair: a versatile combination in the synthesis of colloidal nanoparticles. Nanoscale Horizons, 2022, 7, 941-1015.	4.1	61
33	Liquid-Phase Exfoliation of Magnetically and Optoelectronically Active Ruthenium Trichloride Nanosheets. ACS Nano, 2022, 16, 11315-11324.	7.3	10
34	Improving Câ€“Nâ€“FeO_x Oxygen Evolution Electrocatalysts through Hydroxyl-Modulated Local Coordination Environment. ACS Catalysis, 2022, 12, 7443-7452.	5.5	12
35	Antimony nanomaterials modified screen-printed electrodes for the voltammetric determination of metal ions. Electrochimica Acta, 2022, 425, 140690.	2.6	9
36	Arsenene and Antimonene. , 2022, , 149-172.		0

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37	Chiral molecular intercalation superlattices. Nature, 2022, 606, 902-908.	13.7	67
38	Electrochemical Behavior of Rechargeable Alâ€“Ni Battery Systems in Concentrated [EMIm]Cl-AlCl₃ Electrolyte. ACS Applied Energy Materials, 2022, 5, 6797-6804.	2.5	0
39	Vanadium Dopants: A Boon or a Bane for Molybdenum Dichalcogenidesâ€Based Electrocatalysis Applications. Advanced Functional Materials, 2021, 31, 2009083.	7.8	14
40	Modification of structure and surface morphology in various ZnO facets via low fluence gold swift heavy ion irradiation. Surface and Interface Analysis, 2021, 53, 230-243.	0.8	1
41	Surface Engineering Strategy Using Urea To Improve the Rate Performance of Na₂Ti₃O₇ in Naâ€Ion Batteries. Chemistry - A European Journal, 2021, 27, 3875-3886.	1.7	14
42	Nanoconfined deep eutectic solvent in laminated MXene for efficient CO2 separation. Chemical Engineering Journal, 2021, 405, 126961.	6.6	56
43	Intrinsic carrier multiplication in layered Bi2O2Se avalanche photodiodes with gain bandwidth product exceeding 1 GHz. Nano Research, 2021, 14, 1961-1966.	5.8	17
44	Self-reconstruction mediates isolated Pt tailored nanoframes for highly efficient catalysis. Journal of Materials Chemistry A, 2021, 9, 22501-22508.	5.2	5
45	Lithium-Assisted Exfoliation of Palladium Thiophosphate Nanosheets for Photoelectrocatalytic Water Splitting. ACS Applied Nano Materials, 2021, 4, 441-448.	2.4	8
46	MoS₂ stacking matters: 3R polytype significantly outperforms 2H MoS₂ for the hydrogen evolution reaction. Nanoscale, 2021, 13, 19391-19398.	2.8	16
47	Functionalized metallic transition metal dichalcogenide (TaS₂) for nanocomposite membranes in direct methanol fuel cells. Journal of Materials Chemistry A, 2021, 9, 6368-6381.	5.2	22
48	Electrochemical Exfoliation of Janus-like BiTeI Nanosheets for Electrocatalytic Nitrogen Reduction. ACS Applied Nano Materials, 2021, 4, 590-599.	2.4	12
49	Effect of surface chemistry on bio-conjugation and bio-recognition abilities of 2D germanene materials. Nanoscale, 2021, 13, 1893-1903.	2.8	13
50	Rhenium Doping of Layered Transition-Metal Diselenides Triggers Enhancement of Photoelectrochemical Activity. ACS Nano, 2021, 15, 2374-2385.	7.3	19
51	Liquid Metalsâ€Assisted Synthesis of Scalable 2D Nanomaterials: Prospective Sediment Inks for Screenâ€Printed Energy Storage Applications. Advanced Functional Materials, 2021, 31, 2010320.	7.8	26
52	6FDA-DAM:DABA Co-Polyimide Mixed Matrix Membranes with GO and ZIF-8 Mixtures for Effective CO2/CH4 Separation. Nanomaterials, 2021, 11, 668.	1.9	24
53	Molybdenum Oxide Supported on Ti₃AlC₂ is an Active Reverse Waterâ€“Gas Shift Catalyst. ACS Sustainable Chemistry and Engineering, 2021, 9, 4957-4966.	3.2	15
54	Atomically Thin Nanosheets Confined in 2D Heterostructures: Metalâ€Ion Batteries Prospective. Advanced Energy Materials, 2021, 11, 2100451.	10.2	35

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55	Prediction Clue on the Fading Capacity of Multi-Walled Carbon Nanotube-Decorated Li₂(Fe_{1â€“x}Ti_x)SiO₄/C High-Performance Cathode Materials. Energy & Fuels, 2021, 35, 8321-8333.	2.5	13
56	Picric Acid Violet Light Assisted Photodegradation Mediated by Germanene-Based Materials. Bulletin of the Chemical Society of Japan, 2021, 94, 1695-1701.	2.0	5
57	Photoelectrochemical Activity of Layered Metal Phosphorous Trichalcogenides for Water Oxidation. Advanced Materials Interfaces, 2021, 8, 2100294.	1.9	8
58	Functionalized Germanene-Based Nanomaterials for the Detection of Single Nucleotide Polymorphism. ACS Applied Nano Materials, 2021, 4, 5164-5175.	2.4	17
59	Two-Dimensional Gallium Sulfide Nanoflakes for UV-Selective Photoelectrochemical-type Photodetectors. Journal of Physical Chemistry C, 2021, 125, 11857-11866.	1.5	41
60	Cobalt Phosphorous Trisulfide as a High-Performance Electrocatalyst for the Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2021, 13, 23638-23646.	4.0	31
61	Carbonaceous Oxygen Evolution Reaction Catalysts: From Defect and Dopingâ€Induced Activity over Hybrid Compounds to Ordered Framework Structures. Small, 2021, 17, e2007484.	5.2	25
62	Interfacial Covalent Bonds Regulated Electronâ€Deficient 2D Black Phosphorus for Electrocatalytic Oxygen Reactions. Advanced Materials, 2021, 33, e2008752.	11.1	56
63	Phosphorene and other layered pnictogens as a new source of 2D materials for electrochemical sensors. TrAC - Trends in Analytical Chemistry, 2021, 139, 116249.	5.8	25
64	Ambient-Stable Two-Dimensional CrI₃ via Organic-Inorganic Encapsulation. ACS Nano, 2021, 15, 10659-10667.	7.3	20
65	Self-Powered Broadband Photodetector and Sensor Based on Novel Few-Layered Pd₃(PS₄)₂ Nanosheets. ACS Applied Materials & Interfaces, 2021, 13, 30806-30817.	4.0	13
66	Ruthenium on Alkaliâ€Exfoliated Ti₃(Al_{0.8}Sn_{0.2})C₂ MAX Phase Catalyses Reduction of 4â€Nitroaniline with Ammonia Borane. ChemCatChem, 2021, 13, 3470-3478.	1.8	6
67	Photocatalytic activity of twist-angle stacked 2D TaS2. Npj 2D Materials and Applications, 2021, 5, .	3.9	12
68	High-yield exfoliation of 2D semiconductor monolayers and reassembly of organic/inorganic artificial superlattices. CheM, 2021, 7, 1887-1902.	5.8	36
69	Chiral Phonons and Giant Magnetoâ€Optical Effect in CrBr₃ 2D Magnet. Advanced Materials, 2021, 33, e2101618.	11.1	31
70	Direct Observation of Magnon-Phonon Strong Coupling in Two-Dimensional Antiferromagnet at High Magnetic Fields. Physical Review Letters, 2021, 127, 097401.	2.9	54
71	Layered ZnIn₂S₄ Single Crystals for Ultrasensitive and Wearable Photodetectors. Advanced Optical Materials, 2021, 9, 2100845.	3.6	17
72	CeO2-Blended Cellulose Triacetate Mixed-Matrix Membranes for Selective CO2 Separation. Membranes, 2021, 11, 632.	1.4	11

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73	Overcoming the Challenges of Freestanding Tin Oxideâ€Based Composite Anodes to Achieve High Capacity and Increased Cycling Stability. Advanced Functional Materials, 2021, 31, 2106373.	7.8	9
74	The Role of Alkali Cation Intercalates on the Electrochemical Characteristics of Nb₂CT_X MXene for Energy Storage. Chemistry - A European Journal, 2021, 27, 13235-13241.	1.7	9
75	A short investigation on LiMn2O4 wrapped with MWCNT as composite cathode for lithium-ion batteries. Bulletin of Materials Science, 2021, 44, 1.	0.8	1
76	Integration of BiOI nanosheets into bubble-propelled micromotors for efficient water purification. FlatChem, 2021, 30, 100294.	2.8	9
77	Nitrogen-doped graphene based triboelectric nanogenerators. Nano Energy, 2021, 87, 106173.	8.2	30
78	Edge-Hydrogenated Germanene by Electrochemical Decalcification-Exfoliation of CaGe₂: Germanene-Enabled Vapor Sensor. ACS Nano, 2021, 15, 16709-16718.	7.3	15
79	Comparison between layered Pt3Te4 and PtTe2 for electrocatalytic reduction reactions. FlatChem, 2021, 29, 100280.	2.8	22
80	Modified Single-Walled Carbon Nanotube Membranes for the Elimination of Antibiotics from Water. Membranes, 2021, 11, 720.	1.4	9
81	Understanding electrochemical capacitors with in-situ techniques. Renewable and Sustainable Energy Reviews, 2021, 149, 111418.	8.2	32
82	Molecular-level fabrication of highly selective composite ZIF-8-CNT-PDMS membranes for effective CO2/N2, CO2/H2 and olefin/paraffin separations. Separation and Purification Technology, 2021, 274, 119003.	3.9	27
83	Sub-millimetre scale Van der Waals single-crystal MoTe2 for potassium storage: Electrochemical properties, and its failure and structure evolution mechanisms. Energy Storage Materials, 2021, 43, 284-292.	9.5	17
84	Inverted perovskite solar cells with enhanced lifetime and thermal stability enabled by a metallic tantalum disulfide buffer layer. Nanoscale Advances, 2021, 3, 3124-3135.	2.2	23
85	Liquidâ€Phase Exfoliated Gallium Selenide for Lightâ€Driven Thinâ€Film Transistors. Advanced Electronic Materials, 2021, 7, 2001080.	2.6	18
86	Functionalized germanane/SWCNT hybrid films as flexible anodes for lithium-ion batteries. Nanoscale Advances, 2021, 3, 4440-4446.	2.2	13
87	Surface Modification by High-Energy Heavy-Ion Irradiation in Various Crystalline ZnO Facets. Physical Chemistry Chemical Physics, 2021, 23, 22673-22684.	1.3	5
88	Colloidal chemical bottom-up synthesis routes of pnictogen (As, Sb, Bi) nanostructures with tailored properties and applications: a summary of the state of the art and main insights. CrystEngComm, 2021, 23, 7876-7898.	1.3	11
89	The effectiveness of Soxhlet extraction as a simple method for GO rinsing as a precursor of high-quality graphene. Nanoscale Advances, 2021, 3, 5292-5300.	2.2	4
90	Surface oxidation of Ti₃C₂T_x enhances the catalytic activity of supported platinum nanoparticles in ammonia borane hydrolysis. 2D Materials, 2021, 8, 015001.	2.0	17

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91	Improved CO2/CH4 Separation Properties of Cellulose Triacetate Mixedâ€“Matrix Membranes with CeO2@GO Hybrid Fillers. Membranes, 2021, 11, 777.	1.4	10
92	Mineralizer-free synthesis of orthorhombic arsenic-phosphorus alloys. FlatChem, 2021, 30, 100297.	2.8	4
93	Heat-Up Colloidal Synthesis of Shape-Controlled Cu-Se-S Nanostructuresâ€”Role of Precursor and Surfactant Reactivity and Performance in N2 Electroreduction. Nanomaterials, 2021, 11, 3369.	1.9	6
94	Lightâ€Driven ZnO Brushâ€Shaped Selfâ€Propelled Micromachines for Nitroaromatic Explosives Decomposition. Small, 2020, 16, e1902944.	5.2	36
95	Functional 2D Germanene Fluorescent Coating of Microrobots for Micromachines Multiplexing. Small, 2020, 16, e1902365.	5.2	31
96	Fe(0)-embedded thermally reduced graphene oxide as efficient nanocatalyst for reduction of nitro compounds to amines. Chemical Engineering Journal, 2020, 382, 122469.	6.6	54
97	Graphitic nanofibers decorated with Ni3S2 interlaced nanosheets as efficient binder-free cathodes for hybrid supercapacitors. Applied Surface Science, 2020, 505, 143828.	3.1	10
98	Non-aqueous solution-processed phosphorene by controlled low-potential electrochemical exfoliation and thin film preparation. Nanoscale, 2020, 12, 2638-2647.	2.8	33
99	Black phosphorusâ€“arsenic alloys for lithium ion batteries. FlatChem, 2020, 19, 100143.	2.8	22
100	Black arsenic: a new synthetic method by catalytic crystallization of arsenic glass. Nanoscale, 2020, 12, 5397-5401.	2.8	12
101	Hexagonal and Cubic Boron Nitride in Bulk and Nanosized Forms and Their Capacitive Behavior. ChemElectroChem, 2020, 7, 74-77.	1.7	6
102	Elements beyond graphene: Current state and perspectives of elemental monolayer deposition by bottom-up approach. Applied Materials Today, 2020, 18, 100502.	2.3	29
103	Layered black phosphorus as a reducing agent â€“ decoration with group 10 elements. RSC Advances, 2020, 10, 36452-36458.	1.7	5
104	Enhanced voltammetric determination of metal ions by using a bismuthene-modified screen-printed electrode. Electrochimica Acta, 2020, 362, 137144.	2.6	25
105	Stabilization of Black Phosphorus by Sonicationâ€Assisted Simultaneous Exfoliation and Functionalization. Chemistry - A European Journal, 2020, 26, 17581-17587.	1.7	3
106	Recent Developments on the Single Atom Supported at 2D Materials Beyond Graphene as Catalysts. ACS Catalysis, 2020, 10, 9634-9648.	5.5	102
107	TaS₂, TaSe₂, and Their Heterogeneous Films as Catalysts for the Hydrogen Evolution Reaction. ACS Catalysis, 2020, 10, 3313-3325.	5.5	60
108	Boron and nitrogen dopants in graphene have opposite effects on the electrochemical detection of explosive nitroaromatic compounds. Electrochemistry Communications, 2020, 112, 106660.	2.3	15

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109	Potential Dependent Electrochemical Exfoliation of NiPS₃ and Implications for Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2020, 3, 11992-11999.	2.5	19
110	Microwaveâ€Induced Structural Engineering and Pt Trapping in 6Râ€TaS₂ for the Hydrogen Evolution Reaction. Small, 2020, 16, e2003372.	5.2	18
111	A High-Performance Magnesium Triflate-based Electrolyte for Rechargeable Magnesium Batteries. Cell Reports Physical Science, 2020, 1, 100265.	2.8	48
112	MXene-Based Flexible Supercapacitors: Influence of an Organic Ionic Conductor Electrolyte on the Performance. ACS Applied Materials & Interfaces, 2020, 12, 53039-53048.	4.0	42
113	Single-Step Synthesis of Platinoid-Decorated Phosphorene: Perspectives for Catalysis, Gas Sensing, and Energy Storage. ACS Applied Materials & Interfaces, 2020, 12, 50516-50526.	4.0	16
114	Liquid-Phase Exfoliated GeSe Nanoflakes for Photoelectrochemical-Type Photodetectors and Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2020, 12, 48598-48613.	4.0	56
115	Integrated Biomonitoring Sensing with Wearable Asymmetric Supercapacitors Based on Ti₃C₂ MXene and 1Tâ€Phase WS₂ Nanosheets. Advanced Functional Materials, 2020, 30, 2003673.	7.8	80
116	Structural Manipulation of Layered TiS₂ to TiS₃ Nanobelts through Niobium Doping for Highâ€Performance Supercapacitors. ChemElectroChem, 2020, 7, 4985-4989.	1.7	2
117	Polydimethylsiloxaneâ€“graphene oxide composite improving performance by ion beam irradiation. Surface and Interface Analysis, 2020, 52, 1156-1162.	0.8	8
118	Surface Energy of Black Phosphorus Alloys with Arsenic. ChemNanoMat, 2020, 6, 821-826.	1.5	6
119	Freestanding LiFe0.2Mn0.8PO4/rGO nanocomposites as high energy density fast charging cathodes for lithium-ion batteries. Materials Today Energy, 2020, 16, 100416.	2.5	8
120	Chemistry of Germanene: Surface Modification of Germanane Using Alkyl Halides. ACS Nano, 2020, 14, 7319-7327.	7.3	26
121	2D Germanane Derivative as a Vector for Overcoming Doxorubicin Resistance in Cancer Cells. Applied Materials Today, 2020, 20, 100697.	2.3	8
122	Surface Functionalization of 2D Transition Metal Oxides and Dichalcogenides via Covalent and Non-covalent Bonding for Sustainable Energy and Biomedical Applications. ACS Applied Nano Materials, 2020, 3, 3116-3143.	2.4	67
123	Acetonitrile-assisted exfoliation of layered grey and black arsenic: contrasting properties. Nanoscale Advances, 2020, 2, 1282-1289.	2.2	21
124	Tunable Roomâ€Temperature Synthesis of ReS₂ Bicatalyst on 3Dâ€and 2Dâ€Printed Electrodes for Photoâ€and Electrochemical Energy Applications. Advanced Functional Materials, 2020, 30, 1910193.	7.8	45
125	Layered platinum dichalcogenides (PtS2, PtSe2, PtTe2) for non-enzymatic electrochemical sensor. Applied Materials Today, 2020, 19, 100606.	2.3	11
126	â€œTop-downâ€Arsenene Production by Low-Potential Electrochemical Exfoliation. Inorganic Chemistry, 2020, 59, 11259-11265.	1.9	23

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127	Comparison of GO and polymer microcapacitors prepared by ion beam writing. Surface and Interface Analysis, 2020, 52, 1171-1177.	0.8	1
128	Microcapacitors on graphene oxide and synthetic polymers prepared by microbeam lithography. Applied Surface Science, 2020, 528, 146802.	3.1	9
129	Smartdust 3Dâ€Printed Grapheneâ€Based Al/Ga Robots for Photocatalytic Degradation of Explosives. Small, 2020, 16, 2002111.	5.2	22
130	Graphene-Supported 2D transition metal dichalcogenide van der waals heterostructures. Applied Materials Today, 2020, 19, 100600.	2.3	64
131	Niobium-doped TiS2: Formation of TiS3 nanobelts and their effects in enzymatic biosensors. Biosensors and Bioelectronics, 2020, 155, 112114.	5.3	19
132	Molecular-Scale Characterization of Photoinduced Charge Separation in Mixed-Dimensional InSeâ€“Organic van der Waals Heterostructures. ACS Nano, 2020, 14, 3509-3518.	7.3	17
133	Will Any Crap We Put into Graphene Increase Its Electrocatalytic Effect?. ACS Nano, 2020, 14, 21-25.	7.3	158
134	MXene Titanium Carbide-based Biosensor: Strong Dependence of Exfoliation Method on Performance. Analytical Chemistry, 2020, 92, 2452-2459.	3.2	155
135	Large-Scale Production of Nanocrystalline Black Phosphorus Ceramics. ACS Applied Materials & Interfaces, 2020, 12, 7381-7391.	4.0	23
136	Bipolar Electrochemistry Exfoliation of Layered Metal Chalcogenides Sb₂S₃ and Bi₂S₃ and their Hydrogen Evolution Applications. Chemistry - A European Journal, 2020, 26, 6479-6483.	1.7	15
137	Structural transition induced by niobium doping in layered titanium disulfide: The impact on electrocatalytic performance. Applied Materials Today, 2020, 19, 100555.	2.3	5
138	Solutionâ€Processed GaSe Nanoflakeâ€Based Films for Photoelectrochemical Water Splitting and Photoelectrochemicalâ€Type Photodetectors. Advanced Functional Materials, 2020, 30, 1909572.	7.8	81
139	Freeâ€Standing Black Phosphorus Foils for Energy Storage and Catalysis. Chemistry - A European Journal, 2020, 26, 8162-8169.	1.7	15
140	Emerging pnictogen-based 2D semiconductors: sensing and electronic devices. Nanoscale, 2020, 12, 10430-10446.	2.8	22
141	Autogenous Formation of Gold on Layered Black Phosphorus for Catalytic Purification of Waste Water. ACS Applied Materials & Interfaces, 2020, 12, 22702-22709.	4.0	11
142	Positive and Negative Effects of Dopants toward Electrocatalytic Activity of MoS₂ and WS₂: Experiments and Theory. ACS Applied Materials & Interfaces, 2020, 12, 20383-20392.	4.0	38
143	Electrodeposited NiSe on a forest of carbon nanotubes as a free-standing electrode for hybrid supercapacitors and overall water splitting. Journal of Colloid and Interface Science, 2020, 574, 300-311.	5.0	83
144	Towards Antimonene and 2D Antimony Telluride through Electrochemical Exfoliation. Chemistry - A European Journal, 2020, 26, 6583-6590.	1.7	32

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145	Synthesis Protocols of the Most Common Layered Carbide and Nitride MAX Phases. Small Methods, 2020, 4, 1900780.	4.6	53
146	Nano-LED induced chemical reactions for structuring processes. Nanoscale Advances, 2020, 2, 5421-5427.	2.2	9
147	Spectroscopic thickness and quality metrics for PtSe₂ layers produced by top-down and bottom-up techniques. 2D Materials, 2020, 7, 045027.	2.0	21
148	Atomically Thin 2Dâ€Arsenene by Liquidâ€Phased Exfoliation: Toward Selective Vapor Sensing. Advanced Functional Materials, 2019, 29, 1807004.	7.8	80
149	Chemical bonding and thermodynamic properties of gallium and indium monochalcogenides. Journal of Chemical Thermodynamics, 2019, 128, 97-102.	1.0	6
150	Supercapacitors in Motion: Autonomous Microswimmers for Naturalâ€Resource Recovery. Angewandte Chemie - International Edition, 2019, 58, 13340-13344.	7.2	14
151	Supercapacitors in Motion: Autonomous Microswimmers for Naturalâ€Resource Recovery. Angewandte Chemie, 2019, 131, 13474-13478.	1.6	2
152	Germanane synthesis with simultaneous covalent functionalization: towards highly functionalized fluorescent germananes. Nanoscale, 2019, 11, 19327-19333.	2.8	17
153	Cloisite Microrobots as Self-Propelling Cleaners for Fast and Efficient Removal of Improvised Organophosphate Nerve Agents. ACS Applied Materials & Interfaces, 2019, 11, 31832-31843.	4.0	15
154	2D Stacks of MXene Ti₃C₂ and 1Tâ€Phase WS₂ with Enhanced Capacitive Behavior. ChemElectroChem, 2019, 6, 3982-3986.	1.7	39
155	In Situ Doping of Black Phosphorus by High-Pressure Synthesis. Inorganic Chemistry, 2019, 58, 10227-10238.	1.9	20
156	Micromotors as â€œMothershipsâ€• A Concept for the Transport, Delivery, and Enzymatic Release of Molecular Cargo via Nanoparticles. Langmuir, 2019, 35, 10618-10624.	1.6	18
157	Beyond Graphene: Chemistry of Group 14 Graphene Analogues: Silicene, Germanene, and Stanene. ACS Nano, 2019, 13, 8566-8576.	7.3	93
158	Modification of MoS2 structure by means of high energy ions in connection to electrical properties and light element surface adsorption. Surfaces and Interfaces, 2019, 17, 100357.	1.5	9
159	Flexible freestanding MoS₂-based composite paper for energy conversion and storage. Beilstein Journal of Nanotechnology, 2019, 10, 1488-1496.	1.5	8
160	Synthesis, Composition, and Properties of Partially Oxidized Graphite Oxides. Materials, 2019, 12, 2367.	1.3	10
161	Chalcogenide vacancies drive the electrocatalytic performance of rhenium dichalcogenides. Nanoscale, 2019, 11, 14684-14690.	2.8	15
162	Exfoliated transition metal dichalcogenide (MX2; M = Mo, W; X = S, Se, Te) nanosheets and their composites with polyaniline nanofibers for electrochemical capacitors. Applied Materials Today, 2019, 16, 280-289.	2.3	28

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