

Zdenek Sofer

List of Publications by Year in descending order

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papers

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all docs

551
docs citations

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times ranked

25048
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly exfoliated NiPS ₃ 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 PdBi ₂ nanoflakes to palladium hydride leads to enhanced electrocatalytic N ₂ reduction. Journal of Materials Chemistry A, 2022, 10, 11904-11916.	5.2	6
7	Exfoliated Fe ₃ GeTe ₂ and Ni ₃ GeTe ₂ materials as water splitting electrocatalysts. FlatChem, 2022, 32, 100334.	2.8	11
8	All-Solution-Processed Van der Waals Heterostructures for Wafer-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 NbS ₂ -based proton-exchange membranes for vanadium redox flow batteries. Nanoscale, 2022, 14, 6152-6161.	2.8	8
15	High-Entropy NASICON Phosphates (Na ₃ M ₂ (PO ₄) 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 ZrSe_2 as catalyst for electrolyzers. <i>Nano Select</i> , 2022, 3, 1069-1081.	1.9	6
20	Photomodification of benzyl germanane with group 6 metal carbonyls. <i>FlatChem</i> , 2022, 33, 100354.	2.8	2
21	Flexible, ultralight, and high-energy density electrochemical capacitors using sustainable materials. <i>Electrochimica Acta</i> , 2022, 415, 140239.	2.6	12
22	Topochemical Transformation of Two-Dimensional VSe_2 into Metallic Nonlayered VO_2 for Water Splitting Reactions in Acidic and Alkaline Media. <i>ACS Nano</i> , 2022, 16, 351-367.	7.3	23
23	PtSe_2 on a reduced graphene oxide foil for the alkaline hydrogen evolution reaction. <i>Materials Advances</i> , 2022, 3, 4348-4358.	2.6	6
24	The multi-energetic Au ion implantation of graphene oxide and polymers. <i>EPJ Web of Conferences</i> , 2022, 261, 02006.	0.1	2
25	Electroactive nanocarbon materials as signaling tags for electrochemical PCR. <i>Talanta</i> , 2022, 245, 123479.	2.9	2
26	Synthesis, characterisation, and feasibility studies on the use of vanadium tellurate (V_2Te_8) as a cathode material for aqueous rechargeable Zn-ion batteries. <i>RSC Advances</i> , 2022, 12, 12211-12218.	1.7	2
27	Layered selenophosphate HgP_3Se_3 single crystals: a new candidate for X-ray to visible light photodetectors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8834-8844.	2.7	2
28	Electromagnetic Interference Shielding by Reduced Graphene Oxide Foils. <i>ACS Applied Nano Materials</i> , 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 H ₂ separation and CO ₂ capturing applications. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 20166-20175.	3.8	4
30	Co-doping Graphene with B and N Heteroatoms for Application in Energy Conversion and Storage Devices. <i>ChemNanoMat</i> , 2022, 8, .	1.5	8
31	Layer-Dependent Interlayer Antiferromagnetic Spin Reorientation in Air-Stable Semiconductor CrSBr . <i>ACS Nano</i> , 2022, 16, 11876-11883.	7.3	22
32	Oleic acid/oleylamine ligand pair: a versatile combination in the synthesis of colloidal nanoparticles. <i>Nanoscale Horizons</i> , 2022, 7, 941-1015.	4.1	61
33	Liquid-Phase Exfoliation of Magnetically and Optoelectronically Active Ruthenium Trichloride Nanosheets. <i>ACS Nano</i> , 2022, 16, 11315-11324.	7.3	10
34	Improving FeO_x Oxygen Evolution Electrocatalysts through Hydroxyl-Modulated Local Coordination Environment. <i>ACS Catalysis</i> , 2022, 12, 7443-7452.	5.5	12
35	Antimony nanomaterials modified screen-printed electrodes for the voltammetric determination of metal ions. <i>Electrochimica Acta</i> , 2022, 425, 140690.	2.6	9
36	Arsenene and Antimonene. , 2022, , 149-172.		0

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37	Chiral molecular intercalation superlattices. <i>Nature</i> , 2022, 606, 902-908.	13.7	67
38	Electrochemical Behavior of Rechargeable Al ³⁺ /Ni Battery Systems in Concentrated [EMIm]Cl-AlCl ₃ Electrolyte. <i>ACS Applied Energy Materials</i> , 2022, 5, 6797-6804.	2.5	0
39	Vanadium Dopants: A Boon or a Bane for Molybdenum Dichalcogenides-Based Electrocatalysis Applications. <i>Advanced Functional Materials</i> , 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. <i>Surface and Interface Analysis</i> , 2021, 53, 230-243.	0.8	1
41	Surface Engineering Strategy Using Urea To Improve the Rate Performance of Na ₂ Ti ₃ O ₇ in Na-ion Batteries. <i>Chemistry - A European Journal</i> , 2021, 27, 3875-3886.	1.7	14
42	Nanoconfined deep eutectic solvent in laminated MXene for efficient CO ₂ separation. <i>Chemical Engineering Journal</i> , 2021, 405, 126961.	6.6	56
43	Intrinsic carrier multiplication in layered Bi ₂ O ₂ Se avalanche photodiodes with gain bandwidth product exceeding 1 GHz. <i>Nano Research</i> , 2021, 14, 1961-1966.	5.8	17
44	Self-reconstruction mediates isolated Pt tailored nanoframes for highly efficient catalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22501-22508.	5.2	5
45	Lithium-Assisted Exfoliation of Palladium Thiophosphate Nanosheets for Photoelectrocatalytic Water Splitting. <i>ACS Applied Nano Materials</i> , 2021, 4, 441-448.	2.4	8
46	MoS ₂ stacking matters: 3R polytype significantly outperforms 2H MoS ₂ for the hydrogen evolution reaction. <i>Nanoscale</i> , 2021, 13, 19391-19398.	2.8	16
47	Functionalized metallic transition metal dichalcogenide (TaS ₂) for nanocomposite membranes in direct methanol fuel cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6368-6381.	5.2	22
48	Electrochemical Exfoliation of Janus-like BiTe Nanosheets for Electrocatalytic Nitrogen Reduction. <i>ACS Applied Nano Materials</i> , 2021, 4, 590-599.	2.4	12
49	Effect of surface chemistry on bio-conjugation and bio-recognition abilities of 2D germanene materials. <i>Nanoscale</i> , 2021, 13, 1893-1903.	2.8	13
50	Rhenium Doping of Layered Transition-Metal Diselenides Triggers Enhancement of Photoelectrochemical Activity. <i>ACS Nano</i> , 2021, 15, 2374-2385.	7.3	19
51	Liquid Metals-Assisted Synthesis of Scalable 2D Nanomaterials: Prospective Sediment Inks for Screen-Printed Energy Storage Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2010320.	7.8	26
52	6FDA-DAM:DABA Co-Polyimide Mixed Matrix Membranes with GO and ZIF-8 Mixtures for Effective CO ₂ /CH ₄ Separation. <i>Nanomaterials</i> , 2021, 11, 668.	1.9	24
53	Molybdenum Oxide Supported on Ti ₃ AlC ₂ is an Active Reverse Water-Gas Shift Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4957-4966.	3.2	15
54	Atomically Thin Nanosheets Confined in 2D Heterostructures: Metal-ion Batteries Prospective. <i>Advanced Energy Materials</i> , 2021, 11, 2100451.	10.2	35

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55	Prediction Clue on the Fading Capacity of Multi-Walled Carbon Nanotube-Decorated $\text{Li}_2(\text{FeTi}_4\text{SiO}_4)/\text{C}$ High-Performance Cathode Materials. <i>Energy & Fuels</i> , 2021, 35, 8321-8333.	2.5	13
56	Picric Acid Violet Light Assisted Photodegradation Mediated by Germanene-Based Materials. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 1695-1701.	2.0	5
57	Photoelectrochemical Activity of Layered Metal Phosphorous Trichalcogenides for Water Oxidation. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100294.	1.9	8
58	Functionalized Germanene-Based Nanomaterials for the Detection of Single Nucleotide Polymorphism. <i>ACS Applied Nano Materials</i> , 2021, 4, 5164-5175.	2.4	17
59	Two-Dimensional Gallium Sulfide Nanoflakes for UV-Selective Photoelectrochemical-type Photodetectors. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11857-11866.	1.5	41
60	Cobalt Phosphorous Trisulfide as a High-Performance Electrocatalyst for the Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23638-23646.	4.0	31
61	Carbonaceous Oxygen Evolution Reaction Catalysts: From Defect and Doping-Induced Activity over Hybrid Compounds to Ordered Framework Structures. <i>Small</i> , 2021, 17, e2007484.	5.2	25
62	Interfacial Covalent Bonds Regulated Electron-Deficient 2D Black Phosphorus for Electrocatalytic Oxygen Reactions. <i>Advanced Materials</i> , 2021, 33, e2008752.	11.1	56
63	Phosphorene and other layered pnictogens as a new source of 2D materials for electrochemical sensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 139, 116249.	5.8	25
64	Ambient-Stable Two-Dimensional CrI_3 via Organic-Inorganic Encapsulation. <i>ACS Nano</i> , 2021, 15, 10659-10667.	7.3	20
65	Self-Powered Broadband Photodetector and Sensor Based on Novel Few-Layered $\text{Pd}_3(\text{PS})_2$ Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30806-30817.	4.0	13
66	Ruthenium on Alkali-Exfoliated $\text{Ti}_3(\text{Al}_{0.8}\text{Sn}_{0.2})\text{C}_2$ MAX Phase Catalyses Reduction of 4-Nitroaniline with Ammonia Borane. <i>ChemCatChem</i> , 2021, 13, 3470-3478.	1.8	6
67	Photocatalytic activity of twist-angle stacked 2D TaS_2 . <i>Npj 2D Materials and Applications</i> , 2021, 5, .	3.9	12
68	High-yield exfoliation of 2D semiconductor monolayers and reassembly of organic/inorganic artificial superlattices. <i>Chem</i> , 2021, 7, 1887-1902.	5.8	36
69	Chiral Phonons and Giant Magneto-Optical Effect in CrBr_3 2D Magnet. <i>Advanced Materials</i> , 2021, 33, e2101618.	11.1	31
70	Direct Observation of Magnon-Phonon Strong Coupling in Two-Dimensional Antiferromagnet at High Magnetic Fields. <i>Physical Review Letters</i> , 2021, 127, 097401.	2.9	54
71	Layered ZnIn_2S_4 Single Crystals for Ultrasensitive and Wearable Photodetectors. <i>Advanced Optical Materials</i> , 2021, 9, 2100845.	3.6	17
72	CeO ₂ -Blended Cellulose Triacetate Mixed-Matrix Membranes for Selective CO ₂ Separation. <i>Membranes</i> , 2021, 11, 632.	1.4	11

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73	Overcoming the Challenges of Freestanding Tin Oxide-Based Composite Anodes to Achieve High Capacity and Increased Cycling Stability. <i>Advanced Functional Materials</i> , 2021, 31, 2106373.	7.8	9
74	The Role of Alkali Cation Intercalates on the Electrochemical Characteristics of Nb ₂ CT _x MXene for Energy Storage. <i>Chemistry - A European Journal</i> , 2021, 27, 13235-13241.	1.7	9
75	A short investigation on LiMn ₂ O ₄ wrapped with MWCNT as composite cathode for lithium-ion batteries. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	0.8	1
76	Integration of BiOI nanosheets into bubble-propelled micromotors for efficient water purification. <i>FlatChem</i> , 2021, 30, 100294.	2.8	9
77	Nitrogen-doped graphene based triboelectric nanogenerators. <i>Nano Energy</i> , 2021, 87, 106173.	8.2	30
78	Edge-Hydrogenated Germanene by Electrochemical Decalcification-Exfoliation of CaGe ₂ : Germanene-Enabled Vapor Sensor. <i>ACS Nano</i> , 2021, 15, 16709-16718.	7.3	15
79	Comparison between layered Pt ₃ Te ₄ and PtTe ₂ for electrocatalytic reduction reactions. <i>FlatChem</i> , 2021, 29, 100280.	2.8	22
80	Modified Single-Walled Carbon Nanotube Membranes for the Elimination of Antibiotics from Water. <i>Membranes</i> , 2021, 11, 720.	1.4	9
81	Understanding electrochemical capacitors with in-situ techniques. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111418.	8.2	32
82	Molecular-level fabrication of highly selective composite ZIF-8-CNT-PDMS membranes for effective CO ₂ /N ₂ , CO ₂ /H ₂ and olefin/paraffin separations. <i>Separation and Purification Technology</i> , 2021, 274, 119003.	3.9	27
83	Sub-millimetre scale Van der Waals single-crystal MoTe ₂ for potassium storage: Electrochemical properties, and its failure and structure evolution mechanisms. <i>Energy Storage Materials</i> , 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. <i>Nanoscale Advances</i> , 2021, 3, 3124-3135.	2.2	23
85	Liquid-Phase Exfoliated Gallium Selenide for Light-Driven Thin-Film Transistors. <i>Advanced Electronic Materials</i> , 2021, 7, 2001080.	2.6	18
86	Functionalized germanane/SWCNT hybrid films as flexible anodes for lithium-ion batteries. <i>Nanoscale Advances</i> , 2021, 3, 4440-4446.	2.2	13
87	Surface Modification by High-Energy Heavy-Ion Irradiation in Various Crystalline ZnO Facets. <i>Physical Chemistry Chemical Physics</i> , 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. <i>CrystEngComm</i> , 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. <i>Nanoscale Advances</i> , 2021, 3, 5292-5300.	2.2	4
90	Surface oxidation of Ti ₃ C ₂ T _x enhances the catalytic activity of supported platinum nanoparticles in ammonia borane hydrolysis. <i>2D Materials</i> , 2021, 8, 015001.	2.0	17

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

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109	Potential Dependent Electrochemical Exfoliation of NiPS ₃ and Implications for Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2020, 3, 11992-11999.	2.5	19
110	Microwave-Induced Structural Engineering and Pt Trapping in TaS ₂ 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 Ti ₃ C ₂ MXene and 1T-Phase WS ₂ Nanosheets. Advanced Functional Materials, 2020, 30, 2003673.	7.8	80
116	Structural Manipulation of Layered TiS ₂ to TiS ₃ Nanobelts through Niobium Doping for High-Performance Supercapacitors. ChemElectroChem, 2020, 7, 4985-4989.	1.7	2
117	Polydimethylsiloxane-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 LiFe _{0.2} Mn _{0.8} PO ₄ /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 Germanene Using Alkyl Halides. ACS Nano, 2020, 14, 7319-7327.	7.3	26
121	2D Germanene 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 Room-Temperature Synthesis of ReS ₂ Bicatalyst on 3D- and 2D-Printed Electrodes for Photo- and Electrochemical Energy Applications. Advanced Functional Materials, 2020, 30, 1910193.	7.8	45
125	Layered platinum dichalcogenides (PtS ₂ , PtSe ₂ , PtTe ₂) for non-enzymatic electrochemical sensor. Applied Materials Today, 2020, 19, 100606.	2.3	11
126	Top-down 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. <i>Surface and Interface Analysis</i> , 2020, 52, 1171-1177.	0.8	1
128	Microcapacitors on graphene oxide and synthetic polymers prepared by microbeam lithography. <i>Applied Surface Science</i> , 2020, 528, 146802.	3.1	9
129	Smartdust 3D-Printed Graphene-Based Al/Ga Robots for Photocatalytic Degradation of Explosives. <i>Small</i> , 2020, 16, 2002111.	5.2	22
130	Graphene-Supported 2D transition metal dichalcogenide van der waals heterostructures. <i>Applied Materials Today</i> , 2020, 19, 100600.	2.3	64
131	Niobium-doped TiS ₂ : Formation of TiS ₃ nanobelts and their effects in enzymatic biosensors. <i>Biosensors and Bioelectronics</i> , 2020, 155, 112114.	5.3	19
132	Molecular-Scale Characterization of Photoinduced Charge Separation in Mixed-Dimensional InSe-Organic van der Waals Heterostructures. <i>ACS Nano</i> , 2020, 14, 3509-3518.	7.3	17
133	Will Any Crap We Put into Graphene Increase Its Electrocatalytic Effect?. <i>ACS Nano</i> , 2020, 14, 21-25.	7.3	158
134	MXene Titanium Carbide-based Biosensor: Strong Dependence of Exfoliation Method on Performance. <i>Analytical Chemistry</i> , 2020, 92, 2452-2459.	3.2	155
135	Large-Scale Production of Nanocrystalline Black Phosphorus Ceramics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7381-7391.	4.0	23
136	Bipolar Electrochemistry Exfoliation of Layered Metal Chalcogenides Sb ₂ S ₃ and Bi ₂ S ₃ and their Hydrogen Evolution Applications. <i>Chemistry - A European Journal</i> , 2020, 26, 6479-6483.	1.7	15
137	Structural transition induced by niobium doping in layered titanium disulfide: The impact on electrocatalytic performance. <i>Applied Materials Today</i> , 2020, 19, 100555.	2.3	5
138	Solution-Processed GaSe Nanoflake-Based Films for Photoelectrochemical Water Splitting and Photoelectrochemical-Type Photodetectors. <i>Advanced Functional Materials</i> , 2020, 30, 1909572.	7.8	81
139	Free-Standing Black Phosphorus Foils for Energy Storage and Catalysis. <i>Chemistry - A European Journal</i> , 2020, 26, 8162-8169.	1.7	15
140	Emerging pnictogen-based 2D semiconductors: sensing and electronic devices. <i>Nanoscale</i> , 2020, 12, 10430-10446.	2.8	22
141	Autogenous Formation of Gold on Layered Black Phosphorus for Catalytic Purification of Waste Water. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22702-22709.	4.0	11
142	Positive and Negative Effects of Dopants toward Electrocatalytic Activity of MoS ₂ and WS ₂ : Experiments and Theory. <i>ACS Applied Materials & Interfaces</i> , 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. <i>Journal of Colloid and Interface Science</i> , 2020, 574, 300-311.	5.0	83
144	Towards Antimonene and 2D Antimony Telluride through Electrochemical Exfoliation. <i>Chemistry - A European Journal</i> , 2020, 26, 6583-6590.	1.7	32

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145	Synthesis Protocols of the Most Common Layered Carbide and Nitride MAX Phases. <i>Small Methods</i> , 2020, 4, 1900780.	4.6	53
146	Nano-LED induced chemical reactions for structuring processes. <i>Nanoscale Advances</i> , 2020, 2, 5421-5427.	2.2	9
147	Spectroscopic thickness and quality metrics for PtSe ₂ layers produced by top-down and bottom-up techniques. <i>2D Materials</i> , 2020, 7, 045027.	2.0	21
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