Martin Pumera

List of Publications by Year in descending order

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891 papers	58,759 citations	1097 112 h-index	2567 195 g-index
951 all docs	951 docs citations	951 times ranked	45453 citing authors

#	Article	IF	Citations
1	Lightâ€Driven Micromotors to Dissociate Protein Aggregates That Cause Neurodegenerative Diseases. Advanced Functional Materials, 2022, 32, 2106699.	7.8	29
2	Ultrasonically Propelled Microâ€and Nanorobots. Advanced Functional Materials, 2022, 32, 2102265.	7.8	57
3	Hierarchical Atomic Layer Deposited V₂O₅ on 3D Printed Nanocarbon Electrodes for Highâ€Performance Aqueous Zincâ€Ion Batteries. Small, 2022, 18, e2105572.	5.2	29
4	Edges are more electroactive than basal planes in synthetic bulk crystals of TiS2 and TiSe2. Applied Materials Today, 2022, 26, 101309.	2.3	2
5	2D MoS2/carbon/polylactic acid filament for 3D printing: Photo and electrochemical energy conversion and storage. Applied Materials Today, 2022, 26, 101301.	2.3	18
6	Collective behavior of magnetic microrobots through immuno-sandwich assay: On-the-fly COVID-19 sensing. Applied Materials Today, 2022, 26, 101337.	2.3	34
7	Autonomous self-propelled MnO2 micromotors for hormones removal and degradation. Applied Materials Today, 2022, 26, 101312.	2.3	7
8	Layered MAX phase electrocatalyst activity is driven by only a few hot spots. Journal of Materials Chemistry A, 2022, 10, 3206-3215.	5.2	8
9	Towards micromachine intelligence: potential of polymers. Chemical Society Reviews, 2022, 51, 1558-1572.	18.7	36
10	Selfâ€Propelled Multifunctional Microrobots Harboring Chiral Supramolecular Selectors for â€œEnantiorecognitonâ€onâ€theâ€Flyâ€. Angewandte Chemie, 2022, 134, .	1.6	3
11	Selfâ€Propelled Multifunctional Microrobots Harboring Chiral Supramolecular Selectors for â€œEnantiorecognitionâ€onâ€theâ€Flyâ€. Angewandte Chemie - International Edition, 2022, 61, e202116090.	7.2	25
12	Enzymeâ€Photocatalyst Tandem Microrobot Powered by Urea for Escherichia coli Biofilm Eradication. Small, 2022, 18, e2106612.	5.2	41
13	Two-dimensional vanadium sulfide flexible graphite/polymer films for near-infrared photoelectrocatalysis and electrochemical energy storage. Chemical Engineering Journal, 2022, 435, 135131.	6.6	12
14	Plasmonic-magnetic nanorobots for SARS-CoV-2 RNA detection through electronic readout. Applied Materials Today, 2022, 27, 101402.	2.3	23
15	Micromachines for Microplastics Treatment. ACS Nanoscience Au, 2022, 2, 225-232.	2.0	18
16	3Dâ€Printed SARSâ€CoVâ€2 RNA Genosensing Microfluidic System. Advanced Materials Technologies, 2022, 7, 2101121.	3.0	31
17	Nano/Microplastics Capture and Degradation by Autonomous Nano/Microrobots: A Perspective. Advanced Functional Materials, 2022, 32, .	7.8	35
18	Fluorinated MAX Phases for Photoelectrochemical Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2022, 10, 2793-2801.	3.2	11

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19	InnenrÃ¼cktitelbild: Selfâ€Propelled Multifunctional Microrobots Harboring Chiral Supramolecular Selectors for â€œEnantiorecognitonâ€onâ€theâ€Flyâ€•(Angew. Chem. 14/2022). Angewandte Chemie, 2022, 134, .	1.6	0
20	Faceted Crystal Nanoarchitectonics of Organicâ€“Inorganic 3D-Printed Visible-Light Photocatalysts. ACS Applied Energy Materials, 2022, 5, 3252-3258.	2.5	6
21	Pick up and dispose of pollutants from water via temperature-responsive micellar copolymers on magnetite nanorobots. Nature Communications, 2022, 13, 1026.	5.8	41
22	Flexible wearable MXene Ti3C2-Based power patch running on sweat. Biosensors and Bioelectronics, 2022, 205, 114092.	5.3	25
23	Biodegradable polyester platform for extrusion-based bioprinting. Bioprinting, 2022, 26, e00198.	2.9	5
24	Shape Engineering of TiO₂ Microrobots for â€œOnâ€theâ€Flyâ€•Optical Brake. Small, 2022, 18, e2106271.	5.2	18
25	Biotemplating of Metalâ€“Organic Framework Nanocrystals for Applications in Smallâ€Scale Robotics. Advanced Functional Materials, 2022, 32, .	7.8	21
26	Shape-Controlled Self-Assembly of Light-Powered Microrobots into Ordered Microchains for Cells Transport and Water Remediation. ACS Nano, 2022, 16, 7615-7625.	7.3	38
27	Magnetic Biohybrid Robots as Efficient Drug Carrier to Generate Plant Cell Clones. Small, 2022, 18, e2200208.	5.2	6
28	Lightâ€Propelled Nanorobots for Facial Titanium Implants Biofilms Removal. Small, 2022, 18, e2200708.	5.2	26
29	Swarming Magnetic Photoactive Microrobots for Dental Implant Biofilm Eradication. ACS Nano, 2022, 16, 8694-8703.	7.3	37
30	Microrobotic carrier with enzymatically encoded drug release in the presence of pancreatic cancer cells via programmed self-destruction. Applied Materials Today, 2022, 27, 101494.	2.3	8
31	Fluorinated Transition Metal Carbides for Flexible Supercapacitors. ACS Applied Energy Materials, 2022, 5, 6353-6362.	2.5	6
32	Photoelectrolysis of TiO2 is Highly Localized and the Selectivity is Affected by the Light. Chemical Engineering Journal, 2022, , 136995.	6.6	5
33	Microâ€and Nanorobots Meet DNA. Advanced Functional Materials, 2022, 32, .	7.8	17
34	Hybrid magneto-photocatalytic microrobots for sunscreens pollutants decontamination. Chemical Engineering Journal, 2022, 446, 137139.	6.6	7
35	Micellar Polymer Magnetic Microrobots as Efficient Nerve Agent Microcleaners. ACS Applied Materials & Interfaces, 2022, 14, 26128-26134.	4.0	5
36	Functional metal-based 3D-printed electronics engineering: Tunability and bio-recognition. Applied Materials Today, 2022, 28, 101519.	2.3	4

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37	Dual polymer engineering enables high-performance 3D printed Zn-organic battery cathodes. Applied Materials Today, 2022, 28, 101515.	2.3	3
38	Photo-Responsive Doped 3D-Printed Copper Electrodes for Water Splitting: Refractory One-Pot Doping Dramatically Enhances the Performance. Journal of Physical Chemistry C, 2022, 126, 9016-9026.	1.5	10
39	Microrobotic photocatalyst on-the-fly: 1D/2D nanoarchitectonic hybrid-based layered metal thiophosphate magnetic micromachines for enhanced photodegradation of nerve agent. Chemical Engineering Journal, 2022, 446, 137342.	6.6	9
40	Al₂O₃/Covalent Organic Framework on 3D-Printed Nanocarbon Electrodes for Enhanced Biomarker Detection. ACS Applied Nano Materials, 2022, 5, 9719-9727.	2.4	5
41	Trapping and detecting nanoplastics by MXene-derived oxide microrobots. Nature Communications, 2022, 13, .	5.8	72
42	Design of bimetallic 3D-printed electrocatalysts via galvanic replacement to enhance energy conversion systems. Applied Catalysis B: Environmental, 2022, 316, 121609.	10.8	8
43	Fully Programmable Collective Behavior of Lightâ€Powered Chemical Microrobotics: pHâ€Dependent Motion Behavior Switch and Controlled Cancer Cell Destruction. Advanced Functional Materials, 2022, 32, .	7.8	9
44	Dip-coating of MXene and transition metal dichalcogenides on 3D-printed nanocarbon electrodes for the hydrogen evolution reaction. Electrochemistry Communications, 2021, 122, 106890.	2.3	36
45	Vanadium Dopants: A Boon or a Bane for Molybdenum Dichalcogenidesâ€Based Electrocatalysis Applications. Advanced Functional Materials, 2021, 31, 2009083.	7.8	14
46	Bistable (Supra)molecular Switches on 3D-Printed Responsive Interfaces with Electrical Readout. ACS Applied Materials & Interfaces, 2021, 13, 12649-12655.	4.0	14
47	Recent advances of 3D printing in analytical chemistry: Focus on microfluidic, separation, and extraction devices. TrAC - Trends in Analytical Chemistry, 2021, 135, 116151.	5.8	76
48	Free-standing electrochemically coated MoS_x based 3D-printed nanocarbon electrode for solid-state supercapacitor application. Nanoscale, 2021, 13, 5744-5756.	2.8	52
49	Light-driven Ti₃C₂ MXene micromotors: self-propelled autonomous machines for photodegradation of nitroaromatic explosives. Journal of Materials Chemistry A, 2021, 9, 14904-14910.	5.2	26
50	High resolution electrochemical additive manufacturing of microstructured active materials: case study of MoS_xas a catalyst for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2021, 9, 22072-22081.	5.2	7
51	Atomic layer deposition of photoelectrocatalytic material on 3D-printed nanocarbon structures. Journal of Materials Chemistry A, 2021, 9, 11405-11414.	5.2	21
52	3D Printed Nanocarbon Frameworks for Liâ€Ion Battery Cathodes. Advanced Functional Materials, 2021, 31, 2007285.	7.8	37
53	Functionalized 2D Germanene and Silicene Enzymatic System. Advanced Functional Materials, 2021, 31, 2011125.	7.8	30
54	Chiral 3Dâ€printed Bioelectrodes. Advanced Functional Materials, 2021, 31, 2010608.	7.8	26

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55	Rhenium Doping of Layered Transition-Metal Diselenides Triggers Enhancement of Photoelectrochemical Activity. ACS Nano, 2021, 15, 2374-2385.	7.3	19
56	MXene-functionalised 3D-printed electrodes for electrochemical capacitors. Electrochemistry Communications, 2021, 124, 106920.	2.3	34
57	Chiral Proteinâ€“Covalent Organic Framework 3D-Printed Structures as Chiral Biosensors. Analytical Chemistry, 2021, 93, 5277-5283.	3.2	61
58	Magnetically Driven Micro and Nanorobots. Chemical Reviews, 2021, 121, 4999-5041.	23.0	345
59	3Dâ€Printing to Mitigate COVIDâ€19 Pandemic. Advanced Functional Materials, 2021, 31, 2100450.	7.8	43
60	Electrocatalytic activity of layered MAX phases for the hydrogen evolution reaction. Electrochemistry Communications, 2021, 125, 106977.	2.3	26
61	Breaking Polymer Chains with Selfâ€Propelled Lightâ€Controlled Navigable Hematite Microrobots. Advanced Functional Materials, 2021, 31, 2101510.	7.8	58
62	Active Lightâ€Powered Antibiofilm ZnO Micromotors with Chemically Programmable Properties. Advanced Functional Materials, 2021, 31, 2101178.	7.8	52
63	3D-printed nanocarbon sensors for the detection of chlorophenols and nitrophenols: Towards environmental applications of additive manufacturing. Electrochemistry Communications, 2021, 125, 106984.	2.3	11
64	Graphene Oxide Mimics Biological Signaling Cue to Rescue Starving Bacteria. Advanced Functional Materials, 2021, 31, 2102328.	7.8	3
65	Green activation using reducing agents of carbon-based 3D printed electrodes: Turning good electrodes to great. Carbon, 2021, 175, 413-419.	5.4	47
66	3D Printing Temperature Tailors Electrical and Electrochemical Properties through Changing Inner Distribution of Graphite/Polymer. Small, 2021, 17, e2101233.	5.2	26
67	Sixâ€Degreeâ€ofâ€Freedom Steerable Visibleâ€Lightâ€Driven Microsubmarines Using Water as a Fuel: Application for Explosives Decontamination. Small, 2021, 17, e2100294.	5.2	22
68	A Maze in Plastic Wastes: Autonomous Motile Photocatalytic Microrobots against Microplastics. ACS Applied Materials & Interfaces, 2021, 13, 25102-25110.	4.0	53
69	MXene and MoS_{3â^'}_x Coated 3Dâ€Printed Hybrid Electrode for Solidâ€State Asymmetric Supercapacitor. Small Methods, 2021, 5, e2100451.	4.6	56
70	Two-Dimensional Functionalized Germananes as Photoelectrocatalysts. ACS Nano, 2021, 15, 11681-11693.	7.3	25
71	Multiresponsive 2D Ti₃C₂T_x MXene via Implanting Molecular Properties. ACS Nano, 2021, 15, 10067-10075.	7.3	16
72	Reconstructed Bismuthâ€Based Metalâ^'Organic Framework Nanofibers for Selective CO₂â€toâ€Formate Conversion: Morphology Engineering. ChemSusChem, 2021, 14, 3402-3412.	3.6	28

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73	Efficient Protein Transfection by Swarms of Chemically Powered Plasmonic Virus-Sized Nanorobots. ACS Nano, 2021, 15, 12899-12910.	7.3	16
74	Catalyst Formation and In Operando Monitoring of the Electrocatalytic Activity in Flow Reactors. ACS Applied Materials & Interfaces, 2021, 13, 35777-35784.	4.0	8
75	Flexible Graphiteâ€“Poly(Lactic Acid) Composite Films as Large-Area Conductive Electrodes for Energy Applications. ACS Applied Energy Materials, 2021, 4, 6975-6981.	2.5	13
76	Silicane Derivative Increases Doxorubicin Efficacy in an Ovarian Carcinoma Mouse Model: Fighting Drug Resistance. ACS Applied Materials & Interfaces, 2021, 13, 31355-31370.	4.0	5
77	Applications of Atomic Layer Deposition in Design of Systems for Energy Conversion. Small, 2021, 17, e2102088.	5.2	26
78	Realâ€Time Biomonitoring Device Based on 2D Black Phosphorus and Polyaniline Nanocomposite Flexible Supercapacitors. Small, 2021, 17, e2102337.	5.2	27
79	Self-Propelled Activated Carbon Micromotors for â€œOn-the-Flyâ€•Capture of Nitroaromatic Explosives. Journal of Physical Chemistry C, 2021, 125, 18040-18045.	1.5	11
80	Swarming Aqua Sperm Micromotors for Active Bacterial Biofilms Removal in Confined Spaces. Advanced Science, 2021, 8, e2101301.	5.6	30
81	Microplastic Removal and Degradation by Musselâ€Inspired Adhesive Magnetic/Enzymatic Microrobots. Small Methods, 2021, 5, e2100230.	4.6	67
82	Doping and Decorating 2D Materials for Biosensing: Benefits and Drawbacks. Advanced Functional Materials, 2021, 31, 2102555.	7.8	23
83	Layered transition metal selenophosphites for visible light photoelectrochemical production of hydrogen. Electrochemistry Communications, 2021, 129, 107077.	2.3	7
84	Nickel Sulfide Microrockets as Selfâ€Propelled Energy Storage Devices to Power Electronic Circuits â€œOnâ€Demandâ€• Small Methods, 2021, 5, e2100511.	4.6	16
85	3D-printed transmembrane glycoprotein cancer biomarker aptasensor. Applied Materials Today, 2021, 24, 101153.	2.3	9
86	Atomic layer deposition of electrocatalytic layer of MoS2 onto metal-based 3D-printed electrode toward tailoring hydrogen evolution efficiency. Applied Materials Today, 2021, 24, 101131.	2.3	8
87	Smart Energy Bricks: Ti₃C₂@Polymer Electrochemical Energy Storage inside Bricks by 3D Printing. Advanced Functional Materials, 2021, 31, 2106990.	7.8	26
88	Versatile Design of Functional Organicâ€“Inorganic 3Dâ€Printed (Opto)Electronic Interfaces with Custom Catalytic Activity. Small, 2021, 17, e2103189.	5.2	14
89	Photoâ€Fenton Degradation of Nitroaromatic Explosives by Lightâ€Powered Hematite Microrobots: When Higher Speed Is Not What We Go For. Small Methods, 2021, 5, e2100617.	4.6	22
90	3D-Printed COVID-19 immunosensors with electronic readout. Chemical Engineering Journal, 2021, 425, 131433.	6.6	54

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91	Organic photoelectrode engineering: accelerating photocurrent generation via donorâ€“acceptor interactions and surface-assisted synthetic approach. Journal of Materials Chemistry A, 2021, 9, 7162-7171.	5.2	13
92	Oxygen evolution catalysts under proton exchange membrane conditions in a conventional three electrode cell vs. electrolyser device: a comparison study and a 3D-printed electrolyser for academic labs. Journal of Materials Chemistry A, 2021, 9, 9113-9123.	5.2	24
93	Local electrochemical activity of transition metal dichalcogenides and their heterojunctions on 3D-printed nanocarbon surfaces. Nanoscale, 2021, 13, 5324-5332.	2.8	15
94	Atomic Layer Deposition of Electrocatalytic Insulator Al₂O₃ on Three-Dimensional Printed Nanocarbons. ACS Nano, 2021, 15, 686-697.	7.3	28
95	Two-dimensional materials in biomedical, biosensing and sensing applications. Chemical Society Reviews, 2021, 50, 619-657.	18.7	265
96	3D printing of functional microrobots. Chemical Society Reviews, 2021, 50, 2794-2838.	18.7	178
97	Covalently modified enzymatic 3D-printed bioelectrode. Mikrochimica Acta, 2021, 188, 374.	2.5	12
98	Hybrid Inorganicâ€“Organic Visible-Light-Driven Microrobots Based on Donorâ€“Acceptor Organic Polymer for Degradation of Toxic Psychoactive Substances. ACS Nano, 2021, 15, 18458-18468.	7.3	13
99	Fully metallic copper 3D-printed electrodes via sintering for electrocatalytic biosensing. Applied Materials Today, 2021, 25, 101253.	2.3	20
100	Tailorable nanostructured mercury/gold amalgam electrode arrays with varied surface areas and compositions. Sensors and Actuators B: Chemical, 2020, 302, 127175.	4.0	1
101	Lightâ€Driven ZnO Brushâ€Shaped Selfâ€Propelled Micromachines for Nitroaromatic Explosives Decomposition. Small, 2020, 16, e1902944.	5.2	36
102	Functional 2D Germanene Fluorescent Coating of Microrobots for Micromachines Multiplexing. Small, 2020, 16, e1902365.	5.2	31
103	Photocatalytic Micromotors Activated by UV to Visible Light for Environmental Remediation, Micropumps, Reversible Assembly, Transportation, and Biomimicry. Small, 2020, 16, e1903179.	5.2	77
104	Tailoring Metal/TiO₂ Interface to Influence Motion of Lightâ€Activated Janus Micromotors. Advanced Functional Materials, 2020, 30, 1908614.	7.8	65
105	Advances of 2D bismuth in energy sciences. Chemical Society Reviews, 2020, 49, 263-285.	18.7	138
106	Inherent impurities in 3D-printed electrodes are responsible for catalysis towards water splitting. Journal of Materials Chemistry A, 2020, 8, 1120-1126.	5.2	57
107	Electrochemically driven multi-material 3D-printing. Applied Materials Today, 2020, 18, 100530.	2.3	21
108	3D-printed graphene direct electron transfer enzyme biosensors. Biosensors and Bioelectronics, 2020, 151, 111980.	5.3	113

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109	Selfâ€Propelled Tags for Protein Detection. Advanced Functional Materials, 2020, 30, 1906449.	7.8	39
110	Hexagonal and Cubic Boron Nitride in Bulk and Nanosized Forms and Their Capacitive Behavior. ChemElectroChem, 2020, 7, 74-77.	1.7	6
111	Metal-plated 3D-printed electrode for electrochemical detection of carbohydrates. Electrochemistry Communications, 2020, 120, 106827.	2.3	46
112	Layered black phosphorus as a reducing agent â€“ decoration with group 10 elements. RSC Advances, 2020, 10, 36452-36458.	1.7	5
113	Flexible energy generation and storage devices: focus on key role of heterocyclic solid-state organic ionic conductors. Chemical Society Reviews, 2020, 49, 7819-7844.	18.7	27
114	Arsenene nanomotors as anticancer drug carrier. Applied Materials Today, 2020, 21, 100819.	2.3	11
115	ReS₂: A High-Rate Pseudocapacitive Energy Storage Material. ACS Applied Energy Materials, 2020, 3, 10261-10269.	2.5	15
116	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
117	Uranium detection by 3D-printed titanium structures: Towards decentralized nuclear forensic applications. Applied Materials Today, 2020, 21, 100881.	2.3	2
118	Chemically programmable microrobots weaving a web from hormones. Nature Machine Intelligence, 2020, 2, 711-718.	8.3	46
119	Near-Atomic-Thick Bismuthene Oxide Microsheets for Flexible Aqueous Anodes: Boosted Performance upon 3D â†' 2D Transition. ACS Applied Materials & Interfaces, 2020, 12, 55936-55944.	4.0	13
120	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
121	Multifunctional Visibleâ€Light Powered Micromotors Based on Semiconducting Sulfurâ€•and Nitrogenâ€Containing Donorâ€“Acceptor Polymer. Advanced Functional Materials, 2020, 30, 2002701.	7.8	42
122	Bismuthene Microsheets: Bismuthene Metallurgy: Transformation of Bismuth Particles to Ultrahighâ€Aspectâ€Ratio 2D Microsheets (Small 29/2020). Small, 2020, 16, 2070163.	5.2	0
123	Chemical Microrobots as Self-Propelled Microbrushes against Dental Biofilm. Cell Reports Physical Science, 2020, 1, 100181.	2.8	40
124	Frontispiece: Biocatalytic Microâ€•and Nanomotors. Chemistry - A European Journal, 2020, 26, .	1.7	1
125	Swarming of Perovskiteâ€Like Bi₂WO₆ Microrobots Destroy Textile Fibers under Visible Light. Advanced Functional Materials, 2020, 30, 2007073.	7.8	48
126	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

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127	Structural Manipulation of Layered TiS₂ to TiS₃ Nanobelts through Niobium Doping for Highâ€Performance Supercapacitors. ChemElectroChem, 2020, 7, 4985-4989.	1.7	2
128	Inherent Impurities in Graphene/Polylactic Acid Filament Strongly Influence on the Capacitive Performance of 3Dâ€Printed Electrode. Chemistry - A European Journal, 2020, 26, 15746-15753.	1.7	34
129	Corrosion of light powered Pt/TiO2 microrobots. Applied Materials Today, 2020, 20, 100659.	2.3	11
130	Metalâ€“organic-frameworks on 3D-printed electrodes: in situ electrochemical transformation towards the oxygen evolution reaction. Sustainable Energy and Fuels, 2020, 4, 3732-3738.	2.5	15
131	A highly sensitive enzyme-less glucose sensor based on pnictogens and silver shellâ€“gold core nanorod composites. Chemical Communications, 2020, 56, 7909-7912.	2.2	16
132	Materials Electrochemistsâ€™ Never-Ending Quest for Efficient Electrocatalysts: The Devil Is in the Impurities. ACS Catalysis, 2020, 10, 7087-7092.	5.5	41
133	Cancer Cells Microsurgery via Asymmetric Bent Surface Au/Ag/Ni Microrobotic Scalpels Through a Transversal Rotating Magnetic Field. ACS Nano, 2020, 14, 8247-8256.	7.3	92
134	Prospects for Functionalizing Elemental 2D Pnictogens: A Study of Molecular Models. ACS Nano, 2020, 14, 7722-7733.	7.3	13
135	3D-printed biosensors for electrochemical and optical applications. TrAC - Trends in Analytical Chemistry, 2020, 128, 115933.	5.8	92
136	2D Germanane Derivative as a Vector for Overcoming Doxorubicin Resistance in Cancer Cells. Applied Materials Today, 2020, 20, 100697.	2.3	8
137	Low-temperature synthesis and electrocatalytic application of large-area PtTe₂ thin films. Nanotechnology, 2020, 31, 375601.	1.3	23
138	Bismuthene Metallurgy: Transformation of Bismuth Particles to Ultrahighâ€Aspectâ€Ratio 2D Microsheets. Small, 2020, 16, e2002037.	5.2	14
139	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
140	Layered platinum dichalcogenides (PtS2, PtSe2, PtTe2) for non-enzymatic electrochemical sensor. Applied Materials Today, 2020, 19, 100606.	2.3	11
141	Microrobots Derived from Variety Plant Pollen Grains for Efficient Environmental Clean Up and as an Antiâ€Cancer Drug Carrier. Advanced Functional Materials, 2020, 30, 2000112.	7.8	64
142	Droplet-based differential microcalorimeter for real-time energy balance monitoring. Sensors and Actuators B: Chemical, 2020, 312, 127967.	4.0	6
143	Confined Bubbleâ€Propelled Microswimmers in Capillaries: Wall Effect, Fuel Deprivation, and Exhaust Product Excess. Small, 2020, 16, 2000413.	5.2	8
144	Biocatalytic Microâ€and Nanomotors. Chemistry - A European Journal, 2020, 26, 11085-11092.	1.7	27

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145	Accounts in 3Dâ€Printed Electrochemical Sensors: Towards Monitoring of Environmental Pollutants. ChemElectroChem, 2020, 7, 3404-3413.	1.7	43
146	Smartdust 3Dâ€Printed Grapheneâ€Based Al/Ga Robots for Photocatalytic Degradation of Explosives. Small, 2020, 16, 2002111.	5.2	22
147	Niobium-doped TiS2: Formation of TiS3 nanobelts and their effects in enzymatic biosensors. Biosensors and Bioelectronics, 2020, 155, 112114.	5.3	19
148	Active Anion Delivery by Self-Propelled Microswimmers. ACS Nano, 2020, 14, 3434-3441.	7.3	34
149	3D Printing for Electrochemical Energy Applications. Chemical Reviews, 2020, 120, 2783-2810.	23.0	255
150	Will Any Crap We Put into Graphene Increase Its Electrocatalytic Effect?. ACS Nano, 2020, 14, 21-25.	7.3	158
151	Nanorobots: Machines Squeezed between Molecular Motors and Micromotors. CheM, 2020, 6, 867-884.	5.8	56
152	MXene Titanium Carbide-based Biosensor: Strong Dependence of Exfoliation Method on Performance. Analytical Chemistry, 2020, 92, 2452-2459.	3.2	155
153	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
154	Structural transition induced by niobium doping in layered titanium disulfide: The impact on electrocatalytic performance. Applied Materials Today, 2020, 19, 100555.	2.3	5
155	Microrobots in Brewery: Dual Magnetic/Lightâ€Powered Hybrid Microrobots for Preventing Microbial Contamination in Beer. Chemistry - A European Journal, 2020, 26, 3039-3043.	1.7	24
156	3D-printed electrodes for the detection of mycotoxins in food. Electrochemistry Communications, 2020, 115, 106735.	2.3	28
157	Siloxene, Germanane, and Methylgermanane: Functionalized 2D Materials of Group 14 for Electrochemical Applications. Advanced Functional Materials, 2020, 30, 1910186.	7.8	44
158	Nanorobots: Machines Squeezed between Molecular Motors and Micromotors. CheM, 2020, 6, 1032.	5.8	9
159	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
160	Coordinated behaviors of artificial micro/nanomachines: from mutual interactions to interactions with the environment. Chemical Society Reviews, 2020, 49, 3211-3230.	18.7	91
161	Towards Antimonene and 2D Antimony Telluride through Electrochemical Exfoliation. Chemistry - A European Journal, 2020, 26, 6583-6590.	1.7	32
162	Catalyst coating of 3D printed structures via electrochemical deposition: Case of the transition metal chalcogenide MoSx for hydrogen evolution reaction. Applied Materials Today, 2020, 20, 100654.	2.3	35

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163	Tailoring capacitance of 3D-printed graphene electrodes by carbonisation temperature. Nanoscale, 2020, 12, 19673-19680.	2.8	28
164	Atomically Thin 2Dâ€Arsenene by Liquidâ€Phased Exfoliation: Toward Selective Vapor Sensing. Advanced Functional Materials, 2019, 29, 1807004.	7.8	80
165	Cyanographene and Graphene Acid: The Functional Group of Graphene Derivative Determines the Application in Electrochemical Sensing and Capacitors. ChemElectroChem, 2019, 6, 229-234.	1.7	27
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