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	Chemical reduction of graphene oxide: a synthetic chemistry viewpoint. Chemical Society Reviews, 2014, 43, 291-312.	18.7	1,479
2	Graphene-based nanomaterials for energy storage. Energy and Environmental Science, 2011, 4, 668-674.	15.6	1,169
3	Graphene for electrochemical sensing and biosensing. TrAC - Trends in Analytical Chemistry, 2010, 29, 954-965.	5.8	1,041
4	Graphene-based nanomaterials and their electrochemistry. Chemical Society Reviews, 2010, 39, 4146.	18.7	1,008
5	Electrochemistry of Graphene and Related Materials. Chemical Reviews, 2014, 114, 7150-7188.	23.0	968
6	3D-printing technologies for electrochemical applications. Chemical Society Reviews, 2016, 45, 2740-2755.	18.7	775
7	Graphene in biosensing. Materials Today, 2011, 14, 308-315.	8.3	733
8	Electrochemistry of Nanostructured Layered Transition-Metal Dichalcogenides. Chemical Reviews, 2015, 115, 11941-11966.	23.0	719
9	New materials for electrochemical sensing VI: Carbon nanotubes. TrAC - Trends in Analytical Chemistry, 2005, 24, 826-838.	5.8	626
10	Fabrication of Micro/Nanoscale Motors. Chemical Reviews, 2015, 115, 8704-8735.	23.0	603
11	2D Monoelemental Arsenene, Antimonene, and Bismuthene: Beyond Black Phosphorus. Advanced Materials, 2017, 29, 1605299.	11.1	601
12	Characteristics and performance of two-dimensional materials for electrocatalysis. Nature Catalysis, 2018, 1, 909-921.	16.1	591
13	Electrochemistry of graphene: new horizons for sensing and energy storage. Chemical Record, 2009, 9, 211-223.	2.9	578
14	2H â†’ 1T phase transition and hydrogen evolution activity of MoS₂, MoSe₂, WS₂ and WSe₂ strongly depends on the MX₂ composition. Chemical Communications, 2015, 51, 8450-8453.	2.2	565
15	Layered transition metal dichalcogenides for electrochemical energy generation and storage. Journal of Materials Chemistry A, 2014, 2, 8981-8987.	5.2	552
16	Electrochemical nanobiosensors. Sensors and Actuators B: Chemical, 2007, 123, 1195-1205.	4.0	447
17	Black Phosphorus Rediscovered: From Bulk Material to Monolayers. Angewandte Chemie - International Edition, 2017, 56, 8052-8072.	7.2	407
18	Magnetic Control of Tubular Catalytic Microbots for the Transport, Assembly, and Delivery of Microâ€objects. Advanced Functional Materials, 2010, 20, 2430-2435.	7.8	390

#	Article	IF	Citations
19	Graphene and its electrochemistry â€“ an update. Chemical Society Reviews, 2016, 45, 2458-2493.	18.7	366
20	Graphenes prepared by Staudenmaier, Hofmann and Hummers methods with consequent thermal exfoliation exhibit very different electrochemical properties. Nanoscale, 2012, 4, 3515.	2.8	363
21	Cytotoxicity of Exfoliated Transitionâ€Metal Dichalcogenides (MoS₂, WS₂, and) Tj ETQq1 1 0.784314 rgBT /O 2014, 20, 9627-9632.	1.7	358
22	The Electrochemistry of Carbon Nanotubes: Fundamentals and Applications. Chemistry - A European Journal, 2009, 15, 4970-4978.	1.7	351
23	Magnetically Driven Micro and Nanorobots. Chemical Reviews, 2021, 121, 4999-5041.	23.0	345
24	Covalent chemistry on graphene. Chemical Society Reviews, 2013, 42, 3222.	18.7	335
25	â€œMetalâ€Freeâ€•Catalytic Oxygen Reduction Reaction on Heteroatomâ€Doped Graphene is Caused by Trace Metal Impurities. Angewandte Chemie - International Edition, 2013, 52, 13818-13821.	7.2	331
26	Sulfur-Doped Graphene <i>via</i> Thermal Exfoliation of Graphite Oxide in H₂S, SO₂, or CS₂ Gas. ACS Nano, 2013, 7, 5262-5272.	7.3	321
27	Layered and two dimensional metal oxides for electrochemical energy conversion. Energy and Environmental Science, 2019, 12, 41-58.	15.6	310
28	Graphane and hydrogenated graphene. Chemical Society Reviews, 2013, 42, 5987.	18.7	308
29	Twoâ€Dimensional Transition Metal Dichalcogenides in Biosystems. Advanced Functional Materials, 2015, 25, 5086-5099.	7.8	306
30	Graphene Platform for Hairpin-DNA-Based Impedimetric Genosensing. ACS Nano, 2011, 5, 2356-2361.	7.3	289
31	Electrochemistry at Chemically Modified Graphenes. Chemistry - A European Journal, 2011, 17, 10763-10770.	1.7	288
32	Electrochemistry of Transition Metal Dichalcogenides: Strong Dependence on the Metal-to-Chalcogen Composition and Exfoliation Method. ACS Nano, 2014, 8, 12185-12198.	7.3	288
33	Layered transition-metal dichalcogenides (MoS2 and WS2) for sensing and biosensing. TrAC - Trends in Analytical Chemistry, 2014, 61, 49-53.	5.8	273
34	Carbon Nanotubes Contain Residual Metal Catalyst Nanoparticles even after Washing with Nitric Acid at Elevated Temperature Because These Metal Nanoparticles Are Sheathed by Several Graphene Sheets. Langmuir, 2007, 23, 6453-6458.	1.6	267
35	Two-dimensional materials in biomedical, biosensing and sensing applications. Chemical Society Reviews, 2021, 50, 619-657.	18.7	265
36	Carboxylic Carbon Quantum Dots as a Fluorescent Sensing Platform for DNA Detection. ACS Applied Materials & Interfaces, 2016, 8, 1951-1957.	4.0	261

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37	3D Printing for Electrochemical Energy Applications. Chemical Reviews, 2020, 120, 2783-2810.	23.0	255
38	Lithium Intercalation Compound Dramatically Influences the Electrochemical Properties of Exfoliated MoS₂. Small, 2015, 11, 605-612.	5.2	250
39	Synthesis of Strongly Fluorescent Graphene Quantum Dots by Cage-Opening Buckminsterfullerene. ACS Nano, 2015, 9, 2548-2555.	7.3	248
40	Electrochemistry of graphene, graphene oxide and other graphenoids: Review. Electrochemistry Communications, 2013, 36, 14-18.	2.3	235
41	Electrochemically Exfoliated Graphene and Graphene Oxide for Energy Storage and Electrochemistry Applications. Chemistry - A European Journal, 2016, 22, 153-159.	1.7	235
42	Layered Platinum Dichalcogenides (PtS₂, PtSe₂, and PtTe₂) Electrocatalysis: Monotonic Dependence on the Chalcogen Size. Advanced Functional Materials, 2016, 26, 4306-4318.	7.8	228
43	Electrochemical Exfoliation of Layered Black Phosphorus into Phosphorene. Angewandte Chemie - International Edition, 2017, 56, 10443-10445.	7.2	228
44	Electrocatalysis of layered Group 5 metallic transition metal dichalcogenides (MX₂, M =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	5.2	218
45	Pnictogen (As, Sb, Bi) Nanosheets for Electrochemical Applications Are Produced by Shear Exfoliation Using Kitchen Blenders. Angewandte Chemie - International Edition, 2017, 56, 14417-14422.	7.2	216
46	Noble metal (Pd, Ru, Rh, Pt, Au, Ag) doped graphene hybrids for electrocatalysis. Nanoscale, 2012, 4, 5002.	2.8	214
47	CO₂reduction: the quest for electrocatalytic materials. Journal of Materials Chemistry A, 2017, 5, 8230-8246.	5.2	214
48	Contactless Conductivity Detector for Microchip Capillary Electrophoresis. Analytical Chemistry, 2002, 74, 1968-1971.	3.2	211
49	Beyond Platinum: Bubble-Propelled Micromotors Based on Ag and MnO₂ Catalysts. Journal of the American Chemical Society, 2014, 136, 2719-2722.	6.6	205
50	3D-Printed Graphene/Polylactic Acid Electrodes Promise High Sensitivity in Electroanalysis. Analytical Chemistry, 2018, 90, 5753-5757.	3.2	205
51	Doping with Graphitic Nitrogen Triggers Ferromagnetism in Graphene. Journal of the American Chemical Society, 2017, 139, 3171-3180.	6.6	202
52	Chemically reduced graphene contains inherent metallic impurities present in parent natural and synthetic graphite. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12899-12904.	3.3	195
53	Graphene oxide immobilized enzymes show high thermal and solvent stability. Nanoscale, 2015, 7, 5852-5858.	2.8	195
54	Covalent functionalization of MoS2. Materials Today, 2016, 19, 140-145.	8.3	190

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55	3D Printed Graphene Electrodesâ€™ Electrochemical Activation. ACS Applied Materials & Interfaces, 2018, 10, 40294-40301.	4.0	188
56	Lithium Aluminum Hydride as Reducing Agent for Chemically Reduced Graphene Oxides. Chemistry of Materials, 2012, 24, 2292-2298.	3.2	187
57	Layered Black Phosphorus as a Selective Vapor Sensor. Angewandte Chemie - International Edition, 2015, 54, 14317-14320.	7.2	187
58	Catalytic and Charge Transfer Properties of Transition Metal Dichalcogenides Arising from Electrochemical Pretreatment. ACS Nano, 2015, 9, 5164-5179.	7.3	184
59	3R phase of MoS₂ and WS₂ outperforms the corresponding 2H phase for hydrogen evolution. Chemical Communications, 2017, 53, 3054-3057.	2.2	180
60	Towards disposable lab-on-a-chip: Poly(methylmethacrylate) microchip electrophoresis device with electrochemical detection. Electrophoresis, 2002, 23, 596-601.	1.3	179
61	Carbon nanotube-epoxy composites for electrochemical sensing. Sensors and Actuators B: Chemical, 2006, 113, 617-622.	4.0	179
62	Nanorobots: The Ultimate Wireless Selfâ€Propelled Sensing and Actuating Devices. Chemistry - an Asian Journal, 2009, 4, 1402-1410.	1.7	179
63	Layered Metal Thiophosphite Materials: Magnetic, Electrochemical, and Electronic Properties. ACS Applied Materials & Interfaces, 2017, 9, 12563-12573.	4.0	179
64	3D printing of functional microrobots. Chemical Society Reviews, 2021, 50, 2794-2838.	18.7	178
65	Negative Electrocatalytic Effects of p-Doping Niobium and Tantalum on MoS₂ and WS₂ for the Hydrogen Evolution Reaction and Oxygen Reduction Reaction. ACS Catalysis, 2016, 6, 5724-5734.	5.5	174
66	The Cytotoxicity of Layered Black Phosphorus. Chemistry - A European Journal, 2015, 21, 13991-13995.	1.7	173
67	Helical 3Dâ€Printed Metal Electrodes as Customâ€Shaped 3D Platform for Electrochemical Devices. Advanced Functional Materials, 2016, 26, 698-703.	7.8	168
68	(Bio)Analytical chemistry enabled by 3D printing: Sensors and biosensors. TrAC - Trends in Analytical Chemistry, 2018, 103, 110-118.	5.8	166
69	Fuel-free light-driven micro/nanomachines: artificial active matter mimicking nature. Chemical Society Reviews, 2019, 48, 4966-4978.	18.7	165
70	Metallic Impurities in Graphenes Prepared from Graphite Can Dramatically Influence Their Properties. Angewandte Chemie - International Edition, 2012, 51, 500-503.	7.2	164
71	Gold Nanoparticle-Enhanced Microchip Capillary Electrophoresis. Analytical Chemistry, 2001, 73, 5625-5628.	3.2	163
72	MoS₂ exhibits stronger toxicity with increased exfoliation. Nanoscale, 2014, 6, 14412-14418.	2.8	162

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73	The Covalent Functionalization of Layered Black Phosphorus by Nucleophilic Reagents. Angewandte Chemie - International Edition, 2017, 56, 9891-9896.	7.2	159
74	Will Any Crap We Put into Graphene Increase Its Electrocatalytic Effect?. ACS Nano, 2020, 14, 21-25.	7.3	158
75	Graphite Oxides: Effects of Permanganate and Chlorate Oxidants on the Oxygen Composition. Chemistry - A European Journal, 2012, 18, 13453-13459.	1.7	156
76	Chemical Energy Powered Nano/Micro/Macromotors and the Environment. Chemistry - A European Journal, 2015, 21, 58-72.	1.7	156
77	MXene Titanium Carbide-based Biosensor: Strong Dependence of Exfoliation Method on Performance. Analytical Chemistry, 2020, 92, 2452-2459.	3.2	155
78	Searching for Magnetism in Hydrogenated Graphene: Using Highly Hydrogenated Graphene Prepared <i>via</i> Birch Reduction of Graphite Oxides. ACS Nano, 2013, 7, 5930-5939.	7.3	149
79	Single-Channel Microchip for Fast Screening and Detailed Identification of Nitroaromatic Explosives or Organophosphate Nerve Agents. Analytical Chemistry, 2002, 74, 1187-1191.	3.2	148
80	Electrochemical genosensors for biomedical applications based on gold nanoparticles. Biosensors and Bioelectronics, 2007, 22, 1961-1967.	5.3	143
81	Halogenation of Graphene with Chlorine, Bromine, or Iodine by Exfoliation in a Halogen Atmosphere. Chemistry - A European Journal, 2013, 19, 2655-2662.	1.7	143
82	Electrochemically powered self-propelled electrophoretic nanosubmarines. Nanoscale, 2010, 2, 1643.	2.8	142
83	Black Phosphorus Nanoparticle Labels for Immunoassays via Hydrogen Evolution Reaction Mediation. Analytical Chemistry, 2016, 88, 10074-10079.	3.2	142
84	Graphene for impedimetric biosensing. TrAC - Trends in Analytical Chemistry, 2012, 37, 12-21.	5.8	140
85	Exfoliation of layered materials using electrochemistry. Chemical Society Reviews, 2018, 47, 7213-7224.	18.7	140
86	Layered Black Phosphorus: Strongly Anisotropic Magnetic, Electronic, and Electronâ€Transfer Properties. Angewandte Chemie - International Edition, 2016, 55, 3382-3386.	7.2	139
87	The Toxicity of Graphene Oxides: Dependence on the Oxidative Methods Used. Chemistry - A European Journal, 2013, 19, 8227-8235.	1.7	138
88	The CVD graphene transfer procedure introduces metallic impurities which alter the graphene electrochemical properties. Nanoscale, 2014, 6, 472-476.	2.8	138
89	1T-Phase Transition Metal Dichalcogenides (MoS₂, MoSe₂, WS₂,) Tj ETQq1 1 0.784314 rgBT /O Enzyme-Based Biosensor. ACS Applied Materials & Interfaces, 2017, 9, 40697-40706.	4.0	138
90	Advances of 2D bismuth in energy sciences. Chemical Society Reviews, 2020, 49, 263-285.	18.7	138

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91	Contactless conductivity detection for microfluidics: Designs and applications. Talanta, 2007, 74, 358-364.	2.9	136
92	Magnetically Trigged Direct Electrochemical Detection of DNA Hybridization Using Au67Quantum Dot as Electrical Tracer. Langmuir, 2005, 21, 9625-9629.	1.6	133
93	Synthetic routes contaminate graphene materials with a whole spectrum of unanticipated metallic elements. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13774-13779.	3.3	133
94	Pristine Basalâ€•and Edgeâ€Planeâ€Oriented Molybdenite MoS₂ Exhibiting Highly Anisotropic Properties. Chemistry - A European Journal, 2015, 21, 7170-7178.	1.7	133
95	Measurements of Chemical Warfare Agent Degradation Products Using an Electrophoresis Microchip with Contactless Conductivity Detector. Analytical Chemistry, 2002, 74, 6121-6125.	3.2	131
96	What amount of metallic impurities in carbon nanotubes is small enough not to dominate their redox properties?. Nanoscale, 2009, 1, 260.	2.8	130
97	Multicomponent Metallic Impurities and Their Influence upon the Electrochemistry of Carbon Nanotubes. Journal of Physical Chemistry C, 2009, 113, 4401-4405.	1.5	130
98	Dual Conductivity/Amperometric Detection System for Microchip Capillary Electrophoresis. Analytical Chemistry, 2002, 74, 5919-5923.	3.2	129
99	New materials for electrochemical sensing VII. Microfluidic chip platforms. TrAC - Trends in Analytical Chemistry, 2006, 25, 219-235.	5.8	129
100	Transition metal dichalcogenides (MoS2, MoSe2, WS2 and WSe2) exfoliation technique has strong influence upon their capacitance. Electrochemistry Communications, 2015, 56, 24-28.	2.3	129
101	Reduction of graphene oxide with substituted borohydrides. Journal of Materials Chemistry A, 2013, 1, 1892-1898.	5.2	127
102	Nanomaterials meet microfluidics. Chemical Communications, 2011, 47, 5671.	2.2	126
103	Nonaqueous Electrophoresis Microchip Separations:Â Conductivity Detection in UV-Absorbing Solvents. Analytical Chemistry, 2003, 75, 341-345.	3.2	125
104	Graphene-based electrochemical sensor for detection of 2,4,6-trinitrotoluene (TNT) in seawater: the comparison of single-, few-, and multilayer graphene nanoribbons and graphite microparticles. Analytical and Bioanalytical Chemistry, 2011, 399, 127-131.	1.9	125
105	Graphene oxide reduction by standard industrial reducing agent: thiourea dioxide. Journal of Materials Chemistry, 2012, 22, 11054.	6.7	125
106	Towards an Ultrasensitive Method for the Determination of Metal Impurities in Carbon Nanotubes. Small, 2008, 4, 1476-1484.	5.2	124
107	Impurities in graphenes and carbon nanotubes and their influence on the redox properties. Chemical Science, 2012, 3, 3347.	3.7	123
108	Metallic 1Tâ€WS₂ for Selective Impedimetric Vapor Sensing. Advanced Functional Materials, 2015, 25, 5611-5616.	7.8	122

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109	Food Analysis on Microfluidic Devices Using Ultrasensitive Carbon Nanotubes Detectors. Analytical Chemistry, 2007, 79, 7408-7415.	3.2	120
110	Platelet Graphite Nanofibers for Electrochemical Sensing and Biosensing: The Influence of Graphene Sheet Orientation. Chemistry - an Asian Journal, 2010, 5, 266-271.	1.7	120
111	Few-layer black phosphorus nanoparticles. Chemical Communications, 2016, 52, 1563-1566.	2.2	120
112	The reduction of graphene oxide with hydrazine: elucidating its reductive capability based on a reaction-model approach. Chemical Communications, 2016, 52, 72-75.	2.2	117
113	Layered transition metal dichalcogenide electrochemistry: journey across the periodic table. Chemical Society Reviews, 2018, 47, 5602-5613.	18.7	117
114	Carbon nanotube/polysulfone screen-printed electrochemical immunosensor. Biosensors and Bioelectronics, 2007, 23, 332-340.	5.3	114
115	Externalâ€Energyâ€Independent Polymer Capsule Motors and Their Cooperative Behaviors. Chemistry - A European Journal, 2011, 17, 12020-12026.	1.7	114
116	Inherently Electroactive Graphene Oxide Nanoplatelets As Labels for Single Nucleotide Polymorphism Detection. ACS Nano, 2012, 6, 8546-8551.	7.3	113
117	3D-printed graphene direct electron transfer enzyme biosensors. Biosensors and Bioelectronics, 2020, 151, 111980.	5.3	113
118	Visible-Light-Driven Single-Component BiVO₄ Micromotors with the Autonomous Ability for Capturing Microorganisms. ACS Nano, 2019, 13, 8135-8145.	7.3	110
119	Towards graphene bromide: bromination of graphite oxide. Nanoscale, 2014, 6, 6065-6074.	2.8	109
120	Two-Dimensional 1T-Phase Transition Metal Dichalcogenides as Nanocarriers To Enhance and Stabilize Enzyme Activity for Electrochemical Pesticide Detection. ACS Nano, 2017, 11, 5774-5784.	7.3	109
121	Boron-Doped Graphene: Scalable and Tunable p-Type Carrier Concentration Doping. Journal of Physical Chemistry C, 2013, 117, 23251-23257.	1.5	108
122	Fuel-Free Light-Powered TiO₂/Pt Janus Micromotors for Enhanced Nitroaromatic Explosives Degradation. ACS Applied Materials & Interfaces, 2018, 10, 22427-22434.	4.0	108
123	A Mechanism of Adsorption of Î²â€Nicotinamide Adenine Dinucleotide on Graphene Sheets: Experiment and Theory. Chemistry - A European Journal, 2009, 15, 10851-10856.	1.7	105
124	Carbocatalysis: The State of â€œMetalâ€Freeâ€•Catalysis. Chemistry - A European Journal, 2015, 21, 12550-12562	1.7	104
125	Voltammetry of carbon nanotubes and graphenes: excitement, disappointment, and reality. Chemical Record, 2012, 12, 201-213.	2.9	103
126	Graphene and carbon quantum dots electrochemistry. Electrochemistry Communications, 2015, 52, 75-79.	2.3	103

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127	Precise Tuning of Surface Composition and Electronâ€Transfer Properties of Graphene Oxide Films through Electroreduction. Chemistry - A European Journal, 2013, 19, 4748-4753.	1.7	101
128	Relationship between Carbon Nanotube Structure and Electrochemical Behavior: Heterogeneous Electron Transfer at Electrochemically Activated Carbon Nanotubes. Chemistry - an Asian Journal, 2008, 3, 2046-2055.	1.7	100
129	2D-Pnictogens: alloy-based anode battery materials with ultrahigh cycling stability. Chemical Society Reviews, 2018, 47, 6964-6989.	18.7	100
130	Analysis of explosivesvia microchip electrophoresis and conventional capillary electrophoresis: A review. Electrophoresis, 2006, 27, 244-256.	1.3	99
131	Biomimetic Artificial Inorganic Enzymeâ€Free Selfâ€Propelled Microfish Robot for Selective Detection of Pb²⁺ in Water. Chemistry - A European Journal, 2014, 20, 4292-4296.	1.7	99
132	Micro/Nanomachines and Living Biosystems: From Simple Interactions to Microcyborgs. Advanced Functional Materials, 2018, 28, 1705421.	7.8	99
133	Chemistry of Graphene Derivatives: Synthesis, Applications, and Perspectives. Chemistry - A European Journal, 2018, 24, 5992-6006.	1.7	99
134	Molybdenum disulfide (MoS₂) nanoflakes as inherently electroactive labels for DNA hybridization detection. Nanoscale, 2014, 6, 11971-11975.	2.8	98
135	Catalytic properties of group 4 transition metal dichalcogenides (MX₂; M = Ti, Zr, Hf; X =) Tj ETQq1 1 0.784314 rgBT /Over	5.2	98
136	Selfâ€Contained Polymer/Metal 3D Printed Electrochemical Platform for Tailored Water Splitting. Advanced Functional Materials, 2018, 28, 1700655.	7.8	98
137	Direct voltammetric determination of gold nanoparticles using graphite-epoxy composite electrode. Electrochimica Acta, 2005, 50, 3702-3707.	2.6	97
138	Size Dependant Electrochemical Behavior of Silver Nanoparticles with Sizes of 10, 20, 40, 80 and 107â€…nm. Electroanalysis, 2012, 24, 615-617.	1.5	97
139	Voltammetry of Layered Black Phosphorus: Electrochemistry of Multilayer Phosphorene. ChemElectroChem, 2015, 2, 324-327.	1.7	97
140	Exfoliation of Layered Topological Insulators Bi₂Se₃ and Bi₂Te₃ <i>via</i> Electrochemistry. ACS Nano, 2016, 10, 11442-11448.	7.3	97
141	From Nanomotors to Micromotors: The Influence of the Size of an Autonomous Bubble-Propelled Device upon Its Motion. ACS Nano, 2016, 10, 5041-5050.	7.3	97
142	A chip-based capillary electrophoresis-contactless conductivity microsystem for fast measurements of low-explosive ionic components. Analyst, The, 2002, 127, 719-723.	1.7	96
143	Graphene materials preparation methods have dramatic influence upon their capacitance. Electrochemistry Communications, 2012, 14, 5-8.	2.3	96
144	The capacitance and electron transfer of 3D-printed graphene electrodes are dramatically influenced by the type of solvent used for pre-treatment. Electrochemistry Communications, 2019, 102, 83-88.	2.3	96

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145	Pnictogenâ€Based Enzymatic Phenol Biosensors: Phosphorene, Arsenene, Antimonene, and Bismuthene. Angewandte Chemie - International Edition, 2019, 58, 134-138.	7.2	96
146	The chemistry of CVD graphene. Journal of Materials Chemistry C, 2018, 6, 6082-6101.	2.7	95
147	Sulfur Doping Induces Strong Ferromagnetic Ordering in Graphene: Effect of Concentration and Substitution Mechanism. Advanced Materials, 2016, 28, 5045-5053.	11.1	94
148	Impact Electrochemistry: Measuring Individual Nanoparticles. ACS Nano, 2014, 8, 7555-7558.	7.3	92
149	Monothiolation and Reduction of Graphene Oxide <i>via</i> One-Pot Synthesis: Hybrid Catalyst for Oxygen Reduction. ACS Nano, 2015, 9, 4193-4199.	7.3	92
150	Bioinspired Spiky Micromotors Based on Sporopollenin Exine Capsules. Advanced Functional Materials, 2017, 27, 1702338.	7.8	92
151	Ultrapure Graphene Is a Poor Electrocatalyst: Definitive Proof of the Key Role of Metallic Impurities in Graphene-Based Electrocatalysis. ACS Nano, 2019, 13, 1574-1582.	7.3	92
152	Cancer Cells Microsurgery <i>via</i> Asymmetric Bent Surface Au/Ag/Ni Microrobotic Scalpels Through a Transversal Rotating Magnetic Field. ACS Nano, 2020, 14, 8247-8256.	7.3	92
153	3D-printed biosensors for electrochemical and optical applications. TrAC - Trends in Analytical Chemistry, 2020, 128, 115933.	5.8	92
154	Coordinated behaviors of artificial micro/nanomachines: from mutual interactions to interactions with the environment. Chemical Society Reviews, 2020, 49, 3211-3230.	18.7	91
155	Microchip-based electrochromatography: designs and applications. Talanta, 2005, 66, 1048-1062.	2.9	90
156	Metallic Impurities <i>within</i> Residual Catalyst Metallic Nanoparticles Are in Some Cases Responsible for â€œElectrocatalyticâ€• Effect of Carbon Nanotubes. Chemistry - an Asian Journal, 2009, 4, 554-560.	1.7	90
157	Radioactive Uranium Preconcentration <i>via</i> Self-Propelled Autonomous Microrobots Based on Metalâ€"Organic Frameworks. ACS Nano, 2019, 13, 11477-11487.	7.3	90
158	Lithium Exfoliated Vanadium Dichalcogenides (VS₂, VSe₂, VTe₂) Exhibit Dramatically Different Properties from Their Bulk Counterparts. Advanced Materials Interfaces, 2016, 3, 1600433.	1.9	89
159	Phosphorene and black phosphorus for sensing and biosensing. TrAC - Trends in Analytical Chemistry, 2017, 93, 1-6.	5.8	89
160	Reduction Pathways of 2,4,6-Trinitrotoluene: An Electrochemical and Theoretical Study. Journal of Physical Chemistry C, 2012, 116, 4243-4251.	1.5	88
161	Tuning of graphene oxide composition by multiple oxidations for carbon dioxide storage and capture of toxic metals. Journal of Materials Chemistry A, 2017, 5, 2739-2748.	5.2	87
162	Pnictogen (As, Sb, Bi) Nanosheets for Electrochemical Applications Are Produced by Shear Exfoliation Using Kitchen Blenders. Angewandte Chemie, 2017, 129, 14609-14614.	1.6	87

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163	Poisoning of bubble propelled catalytic micromotors: the chemical environment matters. Nanoscale, 2013, 5, 2909.	2.8	86
164	Unusual Inherent Electrochemistry of Graphene Oxides Prepared Using Permanganate Oxidants. Chemistry - A European Journal, 2013, 19, 12673-12683.	1.7	86
165	Chemical nature of boron and nitrogen dopant atoms in graphene strongly influences its electronic properties. Physical Chemistry Chemical Physics, 2014, 16, 14231-14235.	1.3	86
166	Layered SnS versus SnS₂: Valence and Structural Implications on Electrochemistry and Clean Energy Electrocatalysis. Journal of Physical Chemistry C, 2016, 120, 24098-24111.	1.5	85
167	Two-dimensional transition metal dichalcogenide/conducting polymer composites: synthesis and applications. Nanoscale, 2017, 9, 8052-8065.	2.8	85
168	Black Phosphorus Nanoflakes/Polyaniline Hybrid Material for High-Performance Pseudocapacitors. Journal of Physical Chemistry C, 2017, 121, 20532-20538.	1.5	85
169	Metal-Free Visible-Light Photoactivated C₃N₄ Bubble-Propelled Tubular Micromotors with Inherent Fluorescence and On/Off Capabilities. ACS Nano, 2018, 12, 12482-12491.	7.3	85
170	Exfoliated Layered Manganese Trichalcogenide Phosphite (MnP<i>X</i>₃, <i>X</i> = S, Se) as Electrocatalytic van der Waals Materials for Hydrogen Evolution. Advanced Functional Materials, 2019, 29, 1805975.	7.8	85
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