

Werner Baumgartner

List of Publications by Year in descending order

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133
papers

6,693
citations

81900

39
h-index

64796

79
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139
all docs

139
docs citations

139
times ranked

6809
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection and localization of individual antibody-antigen recognition events by atomic force microscopy.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 3477-3481.	7.1	1,116
2	Imaging of single molecule diffusion.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 2926-2929.	7.1	593
3	Cadherin interaction probed by atomic force microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 4005-4010.	7.1	490
4	Wet but not slippery: boundary friction in tree frog adhesive toe pads. Journal of the Royal Society Interface, 2006, 3, 689-697.	3.4	323
5	Characterization of Photophysics and Mobility of Single Molecules in a Fluid Lipid Membrane. The Journal of Physical Chemistry, 1995, 99, 17662-17668.	2.9	254
6	Directional, passive liquid transport: the Texas horned lizard as a model for a biomimetic "liquid diode". Journal of the Royal Society Interface, 2015, 12, 20150415.	3.4	168
7	Pemphigus foliaceus IgG causes dissociation of desmoglein 1-containing junctions without blocking desmoglein 1 transinteraction. Journal of Clinical Investigation, 2005, 115, 3157-3165.	8.2	152
8	Data analysis of interaction forces measured with the atomic force microscope. Ultramicroscopy, 2000, 82, 85-95.	1.9	148
9	Requirement of Rac activity for maintenance of capillary endothelial barrier properties. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H394-H401.	3.2	121
10	Moisture harvesting and water transport through specialized micro-structures on the integument of lizards. Beilstein Journal of Nanotechnology, 2011, 2, 204-214.	2.8	116
11	Morphometric characterisation of wing feathers of the barn owl <i>Tyto alba pratincola</i> and the pigeon <i>Columba livia</i> . Frontiers in Zoology, 2007, 4, 23.	2.0	110
12	A Nonparametric Test for the General Two-Sample Problem. Biometrics, 1998, 54, 1129.	1.4	105
13	Cadherin function probed by laser tweezer and single molecule fluorescence in vascular endothelial cells. Journal of Cell Science, 2003, 116, 1001-1011.	2.0	105
14	Ultrastructure and physical properties of an adhesive surface, the toe pad epithelium of the tree frog, <i>Litoria caerulea</i> White. Journal of Experimental Biology, 2009, 212, 155-162.	1.7	105
15	Slippery surfaces of pitcher plants: <i>Nepenthes</i> wax crystals minimize insect attachment via microscopic surface roughness. Journal of Experimental Biology, 2010, 213, 1115-1125.	1.7	101
16	Cuprizone treatment induces demyelination and astrogliosis in the mouse hippocampus. Journal of Neuroscience Research, 2009, 87, 1343-1355.	2.9	96
17	Cuprizone Treatment Induces Distinct Demyelination, Astrogliosis, and Microglia Cell Invasion or Proliferation in the Mouse Cerebellum. Cerebellum, 2009, 8, 163-174.	2.5	95
18	Biomechanics of ant adhesive pads: frictional forces are rate- and temperature-dependent. Journal of Experimental Biology, 2004, 207, 67-74.	1.7	92

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19	Intracellular Ca ²⁺ Inhibits Smooth Muscle L-Type Ca ²⁺ Channels by Activation of Protein Phosphatase Type 2B and by Direct Interaction with the Channel. <i>Journal of General Physiology</i> , 1997, 110, 503-513.	1.9	82
20	Flexural stiffness of feather shafts: geometry rules over material properties. <i>Journal of Experimental Biology</i> , 2012, 215, 405-415.	1.7	80
21	Accumulation and Distribution of Multiwalled Carbon Nanotubes in Zebrafish (<i>Danio rerio</i>). <i>Environmental Science & Technology</i> , 2014, 48, 12256-12264.	10.0	77
22	Cuprizone effect on myelination, astrogliosis and microglia attraction in the mouse basal ganglia. <i>Brain Research</i> , 2009, 1305, 137-149.	2.2	69
23	BLBP-expression in astrocytes during experimental demyelination and in human multiple sclerosis lesions. <i>Brain, Behavior, and Immunity</i> , 2011, 25, 1554-1568.	4.1	69
24	Mitochondrial Ca ²⁺ mobilization is a key element in olfactory signaling. <i>Nature Neuroscience</i> , 2012, 15, 754-762.	14.8	64
25	Dynamic force microscopy imaging of native membranes. <i>Ultramicroscopy</i> , 2003, 97, 229-237.	1.9	62
26	The sandfish's skin: Morphology, chemistry and reconstruction. <i>Journal of Bionic Engineering</i> , 2007, 4, 1-9.	5.0	61
27	Micromechanics of smooth adhesive organs in stick insects: pads are mechanically anisotropic and softer towards the adhesive surface. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2008, 194, 373-384.	1.6	59
28	Interactions of multiwalled carbon nanotubes with algal cells: Quantification of association, visualization of uptake, and measurement of alterations in the composition of cells. <i>Environmental Pollution</i> , 2015, 196, 431-439.	7.5	58
29	Ca ²⁺ Dependency of N-Cadherin Function Probed by Laser Tweezer and Atomic Force Microscopy. <i>Journal of Neuroscience</i> , 2003, 23, 11008-11014.	3.6	57
30	Bio-inspired microneedle design for efficient drug/vaccine coating. <i>Biomedical Microdevices</i> , 2020, 22, 8.	2.8	54
31	Investigating the Locomotion of the Sandfish in Desert Sand Using NMR-Imaging. <i>PLoS ONE</i> , 2008, 3, e3309.	2.5	53
32	Hydrothermal carbonization as an all-inclusive process for food-waste conversion. <i>Bioresource Technology Reports</i> , 2018, 2, 77-83.	2.7	48
33	Two Closely Related Genes of Arabidopsis Encode Plastidial Cytidinediphosphate Diacylglycerol Synthases Essential for Photoautotrophic Growth. <i>Plant Physiology</i> , 2010, 153, 1372-1384.	4.8	47
34	Intracellular Ca ²⁺ inactivates L-type Ca ²⁺ channels with a Hill coefficient of approximately 1 and an inhibition constant of approximately 4 microM by reducing channel's open probability. <i>Biophysical Journal</i> , 1997, 73, 1857-1865.	0.5	46
35	Platelet-activating factor reduces endothelial nitric oxide production: role of acid sphingomyelinase. <i>European Respiratory Journal</i> , 2010, 36, 417-427.	6.7	46
36	Cell-Cell Contact Formation Governs Ca ²⁺ Signaling by TRPC4 in the Vascular Endothelium. <i>Journal of Biological Chemistry</i> , 2010, 285, 4213-4223.	3.4	45

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37	A type 2A phosphatase-sensitive phosphorylation site controls modal gating of L-type Ca ²⁺ channels in human vascular smooth-muscle cells. <i>Biochemical Journal</i> , 1996, 318, 513-517.	3.7	44
38	Neuronal cell growth on iridium oxide. <i>Biomaterials</i> , 2010, 31, 1055-1067.	11.4	44
39	The toxicity of silver nanoparticles to zebrafish embryos increases through sewage treatment processes. <i>Ecotoxicology</i> , 2013, 22, 1264-1277.	2.4	41
40	Two-Microelectrode Voltage Clamp of <i>Xenopus</i> Oocytes: Voltage Errors and Compensation for Local Current Flow. <i>Biophysical Journal</i> , 1999, 77, 1980-1991.	0.5	40
41	Affinity of Trans-interacting VE-cadherin Determined by Atomic Force Microscopy. <i>Single Molecules</i> , 2000, 1, 119-122.	0.9	38
42	Cribellate thread production in spiders: Complex processing of nano-fibres into a functional capture thread. <i>Arthropod Structure and Development</i> , 2015, 44, 568-573.	1.4	38
43	Role of transglutaminase α 21 in stabilisation of intercellular junctions of the vascular endothelium. <i>Histochemistry and Cell Biology</i> , 2004, 122, 17-25.	1.7	37
44	VASP-dependent regulation of actin cytoskeleton rigidity, cell adhesion, and detachment. <i>Histochemistry and Cell Biology</i> , 2006, 125, 457-474.	1.7	36
45	Bio-inspired Microfluidic Devices for Passive, Directional Liquid Transport: Model-based Adaption for Different Materials. <i>Procedia Engineering</i> , 2015, 120, 106-111.	1.2	36
46	Intestinal LI-cadherin Acts as a Ca ²⁺ -dependent Adhesion Switch. <i>Journal of Molecular Biology</i> , 2007, 370, 220-230.	4.2	34
47	Possible roles of LI-Cadherin in the formation and maintenance of the intestinal epithelial barrier. <i>Tissue Barriers</i> , 2013, 1, e23815.	3.2	32
48	Extraplasmidial cytidinediphosphate diacylglycerol synthase activity is required for vegetative development in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2013, 75, 867-879.	5.7	32
49	Adhesion enhancement of cribellate capture threads by epicuticular waxes of the insect prey sheds new light on spider web evolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170363.	2.6	32
50	Endothelial barrier stabilization by a cyclic tandem peptide targeting VE-cadherin transinteraction in vitro and in vivo. <i>Journal of Cell Science</i> , 2009, 122, 1616-1625.	2.0	31
51	Trypsin increases availability and open probability of cardiac L-type Ca ²⁺ channels without affecting inactivation induced by Ca ²⁺ . <i>Biophysical Journal</i> , 1995, 69, 1847-1857.	0.5	28
52	An Insulated Flexible Sensor for Stable Electromyography Detection: Application to Prosthesis Control. <i>Sensors</i> , 2019, 19, 961.	3.8	28
53	Imaging and Force Spectroscopy on Desmoglein 1 Using Atomic Force Microscopy Reveal Multivalent Ca ²⁺ -Dependent, Low-Affinity Trans-Interaction. <i>Journal of Membrane Biology</i> , 2007, 216, 83-92.	2.1	27
54	Bone-forming cells with pronounced spread into the third dimension in polymer scaffolds fabricated by two-photon polymerization. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 891-899.	4.0	26

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55	Heterotypic trans-Interaction of LI- and E-Cadherin and Their Localization in Plasmalemmal Microdomains. <i>Journal of Molecular Biology</i> , 2008, 378, 44-54.	4.2	25
56	Cutaneous water collection by a moisture-harvesting lizard, the thorny devil (<i>Moloch</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,702 Td (h	1.7	24
57	Bioinspired polymer microstructures for directional transport of oily liquids. <i>Royal Society Open Science</i> , 2017, 4, 160849.	2.4	23
58	Transmembrane cooperative linkage in cellular adhesion. <i>European Journal of Cell Biology</i> , 2002, 81, 161-168.	3.6	22
59	Mechanical activity and force-frequency relationship of isolated mouse papillary muscle: effects of extracellular calcium concentration, temperature and contraction type. <i>Pflugers Archiv European Journal of Physiology</i> , 2002, 445, 297-304.	2.8	21
60	â€œFluidic diodeâ€ for passive unidirectional liquid transport bioinspired by the spermathecae of fleas. <i>Journal of Bionic Engineering</i> , 2018, 15, 42-56.	5.0	21
61	Short-Term Cuprizone Feeding Verifies N-Acetylaspartate Quantification as a Marker of Neurodegeneration. <i>Journal of Molecular Neuroscience</i> , 2015, 55, 733-748.	2.3	20
62	Different Ca ²⁺ affinities and functional implications of the two synaptic adhesion molecules cadherin-11 and N-cadherin. <i>Molecular and Cellular Neurosciences</i> , 2008, 37, 548-558.	2.2	19
63	Ultra-Low-Power Digital Filtering for Insulated EMG Sensing. <i>Sensors</i> , 2019, 19, 959.	3.8	19
64	The external scent efferent system of selected European true bugs (Heteroptera): a biomimetic inspiration for passive, unidirectional fluid transport. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20170975.	3.4	18
65	Estimating the number of channels in patch-clamp recordings: application to kinetic analysis of multichannel data from voltage-operated channels. <i>Biophysical Journal</i> , 1997, 72, 1143-1152.	0.5	17
66	Atomic Force Microscopyâ€ Derived Nanoscale Chip for the Detection of Human Pathogenic Viruses. <i>Small</i> , 2008, 4, 847-854.	10.0	17
67	Determination of the Young's modulus of the epicuticle of the smooth adhesive organs of <i>Carausius morosus</i> by tensile testing. <i>Journal of Experimental Biology</i> , 2014, 217, 3677-87.	1.7	17
68	Morphological adaptation of the calamistrum to the cribellate spinning process in Deinopoidae (Uloboridae, Deinopidae). <i>Royal Society Open Science</i> , 2016, 3, 150617.	2.4	17
69	Adsorption and movement of water by skin of the Australian thorny devil (Agamidae: <i>Moloch</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50,702 Td (h	2.4	17
70	Modeling of Zinc Dynamics in the Synaptic Cleft: Implications for Cadherin Mediated Adhesion and Synaptic Plasticity. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 306.	2.9	17
71	Laser-Based biomimetic functionalization of surfaces: from moisture harvesting lizards to specific fluid transport systems. <i>International Journal of Design and Nature and Ecodynamics</i> , 2014, 9, 206-215.	0.5	16
72	Plasmalemmal concentration and affinity of mouse vascular endothelial cadherin, VE-cadherin. <i>European Biophysics Journal</i> , 2002, 31, 532-538.	2.2	15

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73	Transglutaminase 1 Stabilizes β -Actin in Endothelial Cells Correlating with a Stabilization of Intercellular Junctions. <i>Journal of Vascular Research</i> , 2007, 44, 234-240.	1.4	15
74	N-cadherin-mediated cell adhesion is regulated by extracellular Zn^{2+} . <i>Metallomics</i> , 2015, 7, 355-362.	2.4	15
75	Nanofibre production in spiders without electric charge. <i>Journal of Experimental Biology</i> , 2017, 220, 2243-2249.	1.7	15
76	Biomimetic Combs as Antiadhesive Tools to Manipulate Nanofibers. <i>ACS Applied Nano Materials</i> , 2020, 3, 3395-3401.	5.0	14
77	Comparative Investigations of the Sandfishs β -Keratin (Reptilia: Scincidae: <i>Scincus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 5 Tissue Engineering, 0, 16, 1-9.	0.7	13
78	Barn Owl Flight. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2012, , 101-117.	0.3	13
79	Adaptation to life in aeolian sand: how the sandfish lizard, <i>Scincus scincus</i>, prevents sand particles from entering its lungs. <i>Journal of Experimental Biology</i> , 2016, 219, 3597-3604.	1.7	13
80	Comparative Investigations of the Sandfishâ€™s β -Keratin (Reptilia: Scincidae: <i>Scincus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 and Tissue Engineering, 0, 15, 1-16.	0.7	12
81	Adaptive camouflage: What can be learned from the wetting behaviour of the tropical flatbugs<i>Dysodius lunatus</i>and<i>D. magnus</i>. <i>Biology Open</i> , 2017, 6, 1209-1218.	1.2	12
82	Beta-Actin is a Target for Transglutaminase Activity at Synaptic Endings in Chicken Telencephalic Cell Cultures. <i>Journal of Molecular Neuroscience</i> , 2012, 46, 410-419.	2.3	11
83	Capacitive Sensing of Surface EMG for Upper Limb Prostheses Control. <i>Procedia Engineering</i> , 2016, 168, 155-158.	1.2	11
84	Water transport through the intestinal epithelial barrier under different osmotic conditions is dependent on LI-cadherin trans-interaction. <i>Tissue Barriers</i> , 2017, 5, e1285390.	3.2	11
85	Basal dephosphorylation controls slow gating of L-type Ca^{2+} channels in human vascular smooth muscle. <i>FEBS Letters</i> , 1995, 373, 30-34.	2.8	10
86	Different pH-dependencies of the two synaptic adhesion molecules<i>N</i>-cadherin and cadherin-11 and the possible functional implication for long-term potentiation. <i>Synapse</i> , 2013, 67, 705-715.	1.2	10
87	Neutral glycans from sandfish skin can reduce friction of polymers. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160103.	3.4	10
88	Bio-inspired âœœfluidic diodeâœœfor large-area unidirectional passive water transport even against gravity. <i>Sensors and Actuators A: Physical</i> , 2018, 283, 375-385.	4.1	10
89	Impact of Femtosecond Laser Treatment Accompanied with Anodization of Titanium Alloy on Fibroblast Cell Growth. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900838.	1.8	10
90	Qualitative and Quantitative Characterisation of Major Elements in Particulate Matter from In-use Diesel Engine Passenger Vehicles by LIBS. <i>Energies</i> , 2020, 13, 368.	3.1	10

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91	Femtosecond Laser-Processing of Pre-Anodized Ti-Based Bone Implants for Cell-Repellent Functionalization. <i>Nanomaterials</i> , 2021, 11, 1342.	4.1	9
92	The function of 7D-cadherins: a mathematical model predicts physiological importance for water transport through simple epithelia. <i>Theoretical Biology and Medical Modelling</i> , 2011, 8, 18.	2.1	8
93	Sensory pits – Enigmatic sense organs of the nymphs of the planthopper <i>Issus coleoptratus</i> (Auchenorrhyncha, Fulgoromorpha). <i>Arthropod Structure and Development</i> , 2012, 41, 443-458.	1.4	8
94	Capacitively coupled EMG detection via ultra-low-power microcontroller STFT. , 2017, 2017, 410-413.		8
95	Repellent rings at titanium cylinders against overgrowth by fibroblasts. <i>Advanced Optical Technologies</i> , 2020, 9, 113-120.	1.7	8
96	Sandfish inspires engineering. , 2011, , .		7
97	Localization of VE-cadherin in plasmalemmal cholesterol rich microdomains and the effects of cholesterol depletion on VE-cadherin mediated cell-cell adhesion. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 1725-1732.	2.4	7
98	Signal evaluation of capacitive EMG for upper limb prostheses control using an ultra-low-power microcontroller. , 2016, , .		7
99	The Texas horned lizard as model for robust capillary structures for passive directional transport of cooling lubricants. <i>Proceedings of SPIE</i> , 2016, , .	0.8	7
100	A novel device for elimination of cancer cells from blood specimens. <i>Scientific Reports</i> , 2020, 10, 10181.	3.3	7
101	A Polydimethylsiloxane (PDMS) Waveguide Sensor that Mimics a Neuromast to Measure Fluid Flow Velocity. <i>Sensors</i> , 2019, 19, 925.	3.8	6
102	An expectation-maximisation algorithm for the deconvolution of the intrinsic distribution of single molecule's parameters. <i>Computers & Chemistry</i> , 2002, 26, 321-326.	1.2	5
103	Functionalization of Carbon Nanotubes. , 2012, , 911-919.		5
104	Electrodifusion near an ion channel and the effect of mobile buffer. <i>Computational Biology and Chemistry</i> , 2004, 28, 67-73.	2.3	4
105	Simple Synthetic Jet Actuators for Cooling Applications Using Soft or Rigid Magnets. <i>Procedia Engineering</i> , 2016, 168, 1541-1546.	1.2	4
106	Major Chemical Elements in Soot and Particulate Matter Exhaust Emissions Generated from In-Use Diesel Engine Passenger Vehicles. , 2020, , .		4
107	An Optimised Surface Structure for Passive, Unidirectional Fluid Transport Bioinspired by True Bugs. <i>Journal of Bionic Engineering</i> , 2021, 18, 375-386.	5.0	4
108	Removing non-random artifacts from patch clamp traces. <i>Journal of Neuroscience Methods</i> , 1998, 82, 175-186.	2.5	3

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109	Functional morphology of the adhesive organs of stick insects (<i>Carausius morosus</i>). Proceedings of SPIE, 2011, , .	0.8	3
110	Finite Element Methods for Computational Nano-optics. , 2012, , 837-843.		3
111	The plant hopper <i>Issus coleoptratus</i> can detoxify phloem sap saponins including the degradation of the terpene core. Biology Open, 2016, 5, 252-255.	1.2	3
112	Friction-Reducing Sandfish Skin. , 2015, , 1-7.		3
113	Three-Dimensional Photonic Structures Fabricated by Two-Photon Polymerization for Microfluidics and Microneedles. , 2018, , .		2
114	Qualitative Characterisation of Trace Elements in Diesel Particulate Matter from In-Use Diesel Engine Passenger Vehicles by Means of Laser-Induced Breakdown Spectroscopy. , 0, , .		2
115	A Novel Screw Drive for Allogenic Headless Position Screws for Use in Osteosynthesis—A Finite-Element Analysis. Bioengineering, 2021, 8, 136.	3.5	2
116	Fullerenes for Drug Delivery. , 2012, , 898-911.		1
117	Three-dimensional photonic structures on transparent substrates fabricated by two-photon polymerization for use as cell substrates and for wetting experiments. , 2016, , .		1
118	Physiological relevance of epithelial geometry: New insights into the standing gradient model and the role of LI cadherin. PLoS ONE, 2018, 13, e0208791.	2.5	1
119	The sandfish lizard's aerodynamic filtering system. Bioinspiration and Biomimetics, 2020, 15, 036003.	2.9	1
120	Identification of the Minor Chemical Elements in the Particulate Matter Exhaust Emissions From In-Use Diesel Engine Passenger Vehicles. , 2020, , .		1
121	The Impact of a Flexible Stern on Canoe Boat Maneuverability and Speed. Biomimetics, 2020, 5, 7.	3.3	1
122	Steady-state gel electrophoresis of long polymer molecules: a theoretical study. European Biophysics Journal, 2000, 29, 61-65.	2.2	0
123	Wolfgang Bargmann-Preis 2006 Pemphigus foliaceus IgG causes dissociation of desmoglein 1-containing junctions without blocking desmoglein 1 transinteraction +. Annals of Anatomy, 2006, 188, 501-502.	1.9	0
124	Cellular Targeting And Function Of Trpc4 Channels In Human Vascular Endothelium. Biophysical Journal, 2009, 96, 264a.	0.5	0
125	Fundamental Properties of Zinc Oxide Nanowires. , 2012, , 919-927.		0
126	Polydimethylsiloxane (PDMS) Waveguide Sensor Detecting Fluid Flow Velocity by Mimicking the Fish Lateral Line Organ. Proceedings (mdpi), 2018, 2, 885.	0.2	0

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127	AMROBS: All-Metal Replicas of Biological Surfaces – A Novel Approach Combining Established Techniques. <i>Biomimetics</i> , 2018, 3, 31.	3.3	0
128	Knowledge Acquisition from a Biomechanical System: Human Gait Transition as an Example. <i>British Biomedical Bulletin</i> , 2018, 06, .	0.0	0
129	Quantification of Minor Chemical Elements in Particulate Matter Collected from In-Use Diesel Engine Passenger Vehicles by Laser-Induced Breakdown Spectroscopy. <i>Energies</i> , 2020, 13, 6113.	3.1	0
130	Friction-Reducing Sandfish Skin. , 2016, , 1261-1267.		0
131	Evaluation of Capacitive EMG Sensor Geometries by Simulation and Measurement. <i>Mathematics in Industry</i> , 2018, , 13-23.	0.3	0
132	Spectrochemical Analytical Characterisation of Particulate Matter Emissions Generated from In-Use Diesel Engine Vehicles. <i>Environmental Sciences Proceedings</i> , 2020, 4, .	0.3	0
133	Qualitative and quantitative characterisation of minor chemical elements in Diesel Particulate Matter by Laser Induced Breakdown Spectroscopy. , 2020, 67, .		0