

# Nicolas H Voelcker

## List of Publications by Year in descending order

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484  
papers

19,213  
citations

15504

65  
h-index

24982

109  
g-index

497  
all docs

497  
docs citations

497  
times ranked

22693  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transdermal Electrochemical Monitoring of Glucose via High-Density Silicon Microneedle Array Patch. <i>Advanced Functional Materials</i> , 2022, 32, 2009850.	14.9	66
2	Next Generation Cell Culture Tools Featuring Micro- and Nanotopographies for Biological Screening. <i>Advanced Functional Materials</i> , 2022, 32, 2100881.	14.9	14
3	Cellular nanotechnologies: Orchestrating cellular processes by engineering silicon nanowires architectures. , 2022, , 231-278.		7
4	Biosensors and Point-of-Care Devices for Bacterial Detection: Rapid Diagnostics Informing Antibiotic Therapy. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101546.	7.6	23
5	Real-time detection of per-fluoroalkyl substance (PFAS) self-assembled monolayers in nanoporous interferometers. <i>Sensors and Actuators B: Chemical</i> , 2022, 355, 131340.	7.8	5
6	Recent Fundamental and Technological Progress in Micro-nanotechnologies. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	0
7	Next Generation Cell Culture Tools Featuring Micro- and Nanotopographies for Biological Screening (Adv. Funct. Mater. 3/2022). <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	1
8	The Australian National Fabrication Facility: Micro/nanotechnologies from Concept to Translation to End Users. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	0
9	Transdermal Electrochemical Monitoring of Glucose via High-Density Silicon Microneedle Array Patch (Adv. Funct. Mater. 3/2022). <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	2
10	Colorimetric Detection of Extracellular Hydrogen Peroxide Using an Integrated Microfluidic Device. <i>Analytical Chemistry</i> , 2022, 94, 1726-1732.	6.5	14
11	Polymeric Nanoneedle Arrays Mediate Stiffness-Independent Intracellular Delivery (Adv. Funct. Mater.) Tj ETQq1 1,0,784314 rgBT /Ove	14.9	1
12	Industry Viable Electrochemical DNA Detection Sensor Architecture via a Stem-Loop Methylene Blue Redox Reporter and Rapid In Situ Probe Immobilization Method for Pharmacogenetic Biomarker Testing Application. <i>Journal of the Electrochemical Society</i> , 2022, 169, 017508.	2.9	0
13	Integrated microfluidic device to monitor unseen Escherichia coli contamination in mammalian cell culture. <i>Sensors and Actuators B: Chemical</i> , 2022, 359, 131522.	7.8	3
14	Biosensors and Point-of-Care Devices for Bacterial Detection: Rapid Diagnostics Informing Antibiotic Therapy (Adv. Healthcare Mater. 3/2022). <i>Advanced Healthcare Materials</i> , 2022, 11, .	7.6	0
15	Silicon Micropillar Array-Based Wearable Sweat Glucose Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 2401-2410.	8.0	26
16	Theranostic nanoparticles for the management of thrombosis. <i>Theranostics</i> , 2022, 12, 2773-2800.	10.0	12
17	The Bumpy Road to Stem Cell Therapies: Rational Design of Surface Topographies to Dictate Stem Cell Mechanotransduction and Fate. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 23066-23101.	8.0	12
18	Designing Electrochemical Biosensing Platforms Using Layered Carbon-Stabilized Porous Silicon Nanostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 15565-15575.	8.0	10

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19	A synthetic lipopeptide targeting top-priority multidrug-resistant Gram-negative pathogens. <i>Nature Communications</i> , 2022, 13, 1625.	12.8	53
20	Porous Silicon Nanocarriers with Stimulus-Cleavable Linkers for Effective Cancer Therapy. <i>Advanced Healthcare Materials</i> , 2022, 11, e2200076.	7.6	11
21	Changing Fate: Reprogramming Cells via Engineered Nanoscale Delivery Materials. <i>Advanced Materials</i> , 2022, 34, e2108757.	21.0	9
22	Clinical Sphingolipids Pathway in Parkinson's Disease: From GCase to Integrated-Biomarker Discovery. <i>Cells</i> , 2022, 11, 1353.	4.1	7
23	Attachment of endothelial colony-forming cells onto a surface bearing immobilized anti-CD34 antibodies: Specific CD34 binding versus nonspecific binding. <i>Biointerphases</i> , 2022, 17, 031003.	1.6	1
24	Electrochemical Biosensors Based on Convectively Assembled Colloidal Crystals. <i>Biosensors</i> , 2022, 12, 480.	4.7	1
25	Porous polymeric membranes: fabrication techniques and biomedical applications. <i>Journal of Materials Chemistry B</i> , 2021, 9, 2129-2154.	5.8	56
26	Amplification-free electrochemiluminescence molecular beacon-based microRNA sensing using a mobile phone for detection. <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129261.	7.8	29
27	Patient-Derived Prostate Cancer Explants: A Clinically Relevant Model to Assess siRNA-Based Nanomedicines. <i>Advanced Healthcare Materials</i> , 2021, 10, 2001594.	7.6	9
28	Inducing immune tolerance with dendritic cell-targeting nanomedicines. <i>Nature Nanotechnology</i> , 2021, 16, 37-46.	31.5	129
29	Engineering Fluorescent Gold Nanoclusters Using Xanthate-Functionalized Hydrophilic Polymers: Toward Enhanced Monodispersity and Stability. <i>Nano Letters</i> , 2021, 21, 476-484.	9.1	36
30	A Regenerable Biosensing Platform for Bacterial Toxins. <i>Biomacromolecules</i> , 2021, 22, 441-453.	5.4	8
31	Formation and biofunctionalisation of polymer photonic crystals by replica moulding from porous silicon. <i>Materials Letters</i> , 2021, 284, 128907.	2.6	1
32	Nanobody-displaying porous silicon nanoparticles for the co-delivery of siRNA and doxorubicin. <i>Biomaterials Science</i> , 2021, 9, 133-147.	5.4	29
33	A MACEing silicon: Towards single-step etching of defined porous nanostructures for biomedicine. <i>Progress in Materials Science</i> , 2021, 116, 100636.	32.8	65
34	Precision Surface Microtopography Regulates Cell Fate via Changes to Actomyosin Contractility and Nuclear Architecture. <i>Advanced Science</i> , 2021, 8, 2003186.	11.2	41
35	Effectiveness of porous silicon nanoparticle treatment at inhibiting the migration of a heterogeneous glioma cell population. <i>Journal of Nanobiotechnology</i> , 2021, 19, 60.	9.1	9
36	Optically transparent vertical silicon nanowire arrays for live-cell imaging. <i>Journal of Nanobiotechnology</i> , 2021, 19, 51.	9.1	15

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37	ELOVL5 Is a Critical and Targetable Fatty Acid Elongase in Prostate Cancer. <i>Cancer Research</i> , 2021, 81, 1704-1718.	0.9	44
38	Impact of resveratrol-mediated increase in uterine artery blood flow on fetal haemodynamics, blood pressure and oxygenation in sheep. <i>Experimental Physiology</i> , 2021, 106, 1166-1180.	2.0	6
39	Development of Polymeric Nanoparticles for Blood-Brain Barrier Transfer Strategies and Challenges. <i>Advanced Science</i> , 2021, 8, 2003937.	11.2	143
40	Bacteriophage uptake by mammalian cell layers represents a potential sink that may impact phage therapy. <i>IScience</i> , 2021, 24, 102287.	4.1	68
41	Carbon-stabilized porous silicon as novel voltammetric sensor platforms. <i>Electrochimica Acta</i> , 2021, 377, 138077.	5.2	9
42	Cellular binding, uptake and biotransformation of silver nanoparticles in human T lymphocytes. <i>Nature Nanotechnology</i> , 2021, 16, 926-932.	31.5	62
43	Recent Advances in Chemical Biology of Mitochondria Targeting. <i>Frontiers in Chemistry</i> , 2021, 9, 683220.	3.6	26
44	Vertically Aligned Nanostructured Topographies for Human Neural Stem Cell Differentiation and Neuronal Cell Interrogation. <i>Advanced Therapeutics</i> , 2021, 4, 2100061.	3.2	13
45	Reprint of: A MACEing silicon: Towards single-step etching of defined porous nanostructures for biomedicine. <i>Progress in Materials Science</i> , 2021, 120, 100817.	32.8	5
46	Engineering Micro-Nanomaterials for Biomedical Translation. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2100002.	3.6	20
47	Overcoming Barriers: Clinical Translation of siRNA Nanomedicines. <i>Advanced Therapeutics</i> , 2021, 4, 2100108.	3.2	14
48	Tutorial: using nanoneedles for intracellular delivery. <i>Nature Protocols</i> , 2021, 16, 4539-4563.	12.0	47
49	Hyaluronic acid-based nanoplatfoms for Doxorubicin: A review of stimuli-responsive carriers, co-delivery and resistance suppression. <i>Carbohydrate Polymers</i> , 2021, 272, 118491.	10.2	100
50	Electrochemical immunosensor for breast cancer biomarker detection using high-density silicon microneedle array. <i>Biosensors and Bioelectronics</i> , 2021, 192, 113496.	10.1	53
51	Risk assessment on-a-chip: a cell-based microfluidic device for immunotoxicity screening. <i>Nanoscale Advances</i> , 2021, 3, 682-691.	4.6	9
52	Compartmentalized microfluidic chambers enable long-term maintenance and communication between human pluripotent stem cell-derived forebrain and midbrain neurons. <i>Lab on A Chip</i> , 2021, 21, 4016-4030.	6.0	9
53	Stimulus-cleavable chemistry in the field of controlled drug delivery. <i>Chemical Society Reviews</i> , 2021, 50, 4872-4931.	38.1	93
54	The Requirement of Genetic Diagnostic Technologies for Environmental Surveillance of Antimicrobial Resistance. <i>Sensors</i> , 2021, 21, 6625.	3.8	2

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55	Bright Future of Gold Nanoclusters in Theranostics. ACS Applied Materials & Interfaces, 2021, 13, 49581-49588.	8.0	35
56	Engineered nano-bio interfaces for intracellular delivery and sampling: Applications, agency and artefacts. Materials Today, 2020, 33, 87-104.	14.2	40
57	Skin in the diagnostics game: Wearable biosensor nano- and microsystems for medical diagnostics. Nano Today, 2020, 30, 100828.	11.9	106
58	Capturing instructive cues of tissue microenvironment by silica bioreplication. Acta Biomaterialia, 2020, 102, 114-126.	8.3	9
59	Enhanced electrochemical sensing performance by in situ electrocopolymerization of pyrrole and thiophene-grafted chitosan. International Journal of Biological Macromolecules, 2020, 143, 582-593.	7.5	19
60	Vertically configured nanostructure-mediated electroporation: a promising route for intracellular regulations and interrogations. Materials Horizons, 2020, 7, 2810-2831.	12.2	22
61	Modulation of substrate van der Waals forces using varying thicknesses of polymer overlayers. Journal of Colloid and Interface Science, 2020, 580, 690-699.	9.4	4
62	<i>In Situ</i> Surface Modification of Microfluidic Blood-Brain-Barriers for Improved Screening of Small Molecules and Nanoparticles. ACS Applied Materials & Interfaces, 2020, 12, 56753-56766.	8.0	36
63	High-Aspect-Ratio SU-8-Based Optofluidic Device for Ammonia Detection in Cell Culture Media. ACS Sensors, 2020, 5, 2523-2529.	7.8	14
64	Microfluidic Electrochemical Sensor for Cerebrospinal Fluid and Blood Dopamine Detection in a Mouse Model of Parkinson's Disease. Analytical Chemistry, 2020, 92, 12347-12355.	6.5	68
65	Efficient Transmission Electron Microscopy Characterization of Cell-Nanostructure Interfacial Interactions. Journal of the American Chemical Society, 2020, 142, 15649-15653.	13.7	18
66	Fluorocarbon Plasma Gas Passivation Enhances Performance of Porous Silicon for Desorption/Ionization Mass Spectrometry. ACS Sensors, 2020, 5, 3226-3236.	7.8	6
67	Emerging Roles of 1D Vertical Nanostructures in Orchestrating Immune Cell Functions. Advanced Materials, 2020, 32, e2001668.	21.0	45
68	Highly Selective Nanostructured Electrochemical Sensor Utilizing Densely Packed Ultrathin Gold Nanowires Film. Electroanalysis, 2020, 32, 1850-1858.	2.9	11
69	Silicon-Nanotube-Mediated Intracellular Delivery Enables Ex Vivo Gene Editing. Advanced Materials, 2020, 32, e2000036.	21.0	51
70	Electrochemical Micropyramid Array-Based Sensor for <i>In Situ</i> Monitoring of Dopamine Released from Neuroblastoma Cells. Analytical Chemistry, 2020, 92, 7746-7753.	6.5	49
71	Surface-Grafted Hyperbranched Polyglycerol Coating: Varying Extents of Fouling Resistance across a Range of Proteins and Cells. ACS Applied Bio Materials, 2020, 3, 3718-3730.	4.6	8
72	Enzyme-like electrocatalysis from 2D gold nanograin-nanocube assemblies. Journal of Colloid and Interface Science, 2020, 575, 24-34.	9.4	6

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73	Rapid Detection of Anabolic and Narcotic Doping Agents in Saliva and Urine By Means of Nanostructured Silicon SALDI Mass Spectrometry. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 31195-31204.	8.0	27
74	Editorial: Advances in Porous Semiconductor Research. <i>Frontiers in Chemistry</i> , 2020, 8, 122.	3.6	1
75	Porous Alumina Membrane-Based Electrochemical Biosensor for Protein Biomarker Detection in Chronic Wounds. <i>Frontiers in Chemistry</i> , 2020, 8, 155.	3.6	20
76	Tailor-engineered plasmonic single-lattices: harnessing localized surface plasmon resonances for visible-NIR light-enhanced photocatalysis. <i>Catalysis Science and Technology</i> , 2020, 10, 3195-3211.	4.1	12
77	Deconstructing, Replicating, and Engineering Tissue Microenvironment for Stem Cell Differentiation. <i>Tissue Engineering - Part B: Reviews</i> , 2020, 26, 540-554.	4.8	11
78	Transferrin-targeted porous silicon nanoparticles reduce glioblastoma cell migration across tight extracellular space. <i>Scientific Reports</i> , 2020, 10, 2320.	3.3	36
79	Facile preparation of tissue engineering scaffolds with pore size gradients using the muesli effect and their application to cell spheroid encapsulation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 2495-2504.	3.4	8
80	Targeted camptothecin delivery via silicon nanoparticles reduces breast cancer metastasis. <i>Biomaterials</i> , 2020, 240, 119791.	11.4	73
81	Geometrical Constraints of Poly(diethylene glycol methyl ether methacrylate) Brushes on Spherical Nanoparticles and Cylindrical Nanowires: Implications for Thermoresponsive Brushes on Nanoobjects. <i>ACS Applied Nano Materials</i> , 2020, 3, 3693-3705.	5.0	3
82	Experimental and theoretical demonstrations of ultraviolet absorption enhancement in porous nano-membrane graphene. <i>Carbon</i> , 2019, 155, 65-70.	10.3	17
83	Interfacial Forces at Layered Surfaces: Substrate Electrical Double-Layer Forces Acting through Ultrathin Polymer Coatings. <i>Langmuir</i> , 2019, 35, 11679-11689.	3.5	5
84	Systematic Evaluation of Transferrin-Modified Porous Silicon Nanoparticles for Targeted Delivery of Doxorubicin to Glioblastoma. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 33637-33649.	8.0	80
85	Deposition of Aminomalononitrile-Based Films: Kinetics, Chemistry, and Morphology. <i>Langmuir</i> , 2019, 35, 9896-9903.	3.5	26
86	Differentiation of Rat Mesenchymal Stem Cells toward Osteogenic Lineage on Extracellular Matrix Protein Gradients. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900595.	7.6	11
87	Jellyfish-Based Smart Wound Dressing Devices Containing In Situ Synthesized Antibacterial Nanoparticles. <i>Advanced Functional Materials</i> , 2019, 29, 1902783.	14.9	39
88	Cellular Deformations Induced by Conical Silicon Nanowire Arrays Facilitate Gene Delivery. <i>Small</i> , 2019, 15, e1904819.	10.0	58
89	Micro- and Nanosystems for Advanced Transdermal Delivery. <i>Advanced Therapeutics</i> , 2019, 2, 1900141.	3.2	18
90	Subcutaneous maternal resveratrol treatment increases uterine artery blood flow in the pregnant ewe and increases fetal but not cardiac growth. <i>Journal of Physiology</i> , 2019, 597, 5063-5077.	2.9	23

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91	Mapping insoluble indole metabolites in the gastrointestinal environment of a murine colorectal cancer model using desorption/ionisation on porous silicon imaging. <i>Scientific Reports</i> , 2019, 9, 12342.	3.3	13
92	Multiparameter toxicity screening on a chip: Effects of UV radiation and titanium dioxide nanoparticles on HaCaT cells. <i>Biomicrofluidics</i> , 2019, 13, 044112.	2.4	3
93	Surface radio-mineralisation mediates chelate-free radiolabelling of iron oxide nanoparticles. <i>Chemical Science</i> , 2019, 10, 2592-2597.	7.4	15
94	A fluorogenic probe based on chelation-hydrolysis-enhancement mechanism for visualizing Zn <sup>2+</sup> in Parkinson's disease models. <i>Journal of Materials Chemistry B</i> , 2019, 7, 2252-2260.	5.8	20
95	Differential functionalisation of the internal and external surfaces of carbon-stabilised nanoporous silicon. <i>Chemical Communications</i> , 2019, 55, 8001-8004.	4.1	3
96	Magnetic Nanoparticles Enhance Pore Blockage-Based Electrochemical Detection of a Wound Biomarker. <i>Frontiers in Chemistry</i> , 2019, 7, 438.	3.6	11
97	Label-Free Bacterial Toxin Detection in Water Supplies Using Porous Silicon Nanochannel Sensors. <i>ACS Sensors</i> , 2019, 4, 1515-1523.	7.8	40
98	High-adhesion vertically aligned gold nanowire stretchable electrodes via a thin-layer soft nailing strategy. <i>Nanoscale Horizons</i> , 2019, 4, 1380-1387.	8.0	11
99	Maximizing RNA Loading for Gene Silencing Using Porous Silicon Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 22993-23005.	8.0	26
100	Advances in Microfluidic Blood-Brain Barrier (BBB) Models. <i>Trends in Biotechnology</i> , 2019, 37, 1295-1314.	9.3	160
101	Uptake, depuration and sublethal effects of the neonicotinoid, imidacloprid, exposure in Sydney rock oysters. <i>Chemosphere</i> , 2019, 230, 1-13.	8.2	29
102	Replication of a Tissue Microenvironment by Thermal Scanning Probe Lithography. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 18988-18994.	8.0	17
103	Photo-crosslinked coatings based on 2-hydroxypropyl acrylamide for the prevention of biofouling. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3520-3527.	5.8	17
104	Porous Silicon Nanostructures as Effective Faradaic Electrochemical Sensing Platforms. <i>Advanced Functional Materials</i> , 2019, 29, 1809206.	14.9	23
105	Spatially Controlled Surface Modification of Porous Silicon for Sustained Drug Delivery Applications. <i>Scientific Reports</i> , 2019, 9, 1367.	3.3	37
106	Gold microneedles fabricated by casting of gold ink used for urea sensing. <i>Materials Letters</i> , 2019, 243, 50-53.	2.6	56
107	Replica moulded poly(dimethylsiloxane) microwell arrays induce localized endothelial cell immobilization for coculture with pancreatic islets. <i>Biointerphases</i> , 2019, 14, 011002.	1.6	1
108	Recent Progress in Lab-On-a-Chip Systems for the Monitoring of Metabolites for Mammalian and Microbial Cell Research. <i>Sensors</i> , 2019, 19, 5027.	3.8	18



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109	Porous silicon nanomaterials: recent advances in surface engineering for controlled drug-delivery applications. <i>Nanomedicine</i> , 2019, 14, 3213-3230.	3.3	31
110	Stimulus-Responsive Antibiotic Releasing Systems for the Treatment of Wound Infections. <i>ACS Applied Bio Materials</i> , 2019, 2, 704-716.	4.6	21
111	Rational Management of Photons for Enhanced Photocatalysis in Structurally-Colored Nanoporous Anodic Alumina Photonic Crystals. <i>ACS Applied Energy Materials</i> , 2019, 2, 1169-1184.	5.1	23
112	Advances in Porous Silicon-Based Nanomaterials for Diagnostic and Therapeutic Applications. <i>Advanced Therapeutics</i> , 2019, 2, 1800095.	3.2	92
113	Porous Silicon Nanoparticles for Applications in Nano-medicine. , 2019, , 211-226.		1
114	Using Integrated Cancer-on-Chip Platforms to Emulate and Probe Various Cancer Models. , 2019, , 151-204.		2
115	Precision nanomedicines for prostate cancer. <i>Nanomedicine</i> , 2018, 13, 803-807.	3.3	7
116	Microfluidic Cell Microarray Platform for High Throughput Analysis of Particle-Cell Interactions. <i>Analytical Chemistry</i> , 2018, 90, 4338-4347.	6.5	19
117	Stable White Light-Emitting Biocomposite Films. <i>Advanced Functional Materials</i> , 2018, 28, 1706967.	14.9	32
118	Nanostructured Electrochemical Biosensors for Label-Free Detection of Water- and Food-Borne Pathogens. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 6055-6072.	8.0	115
119	Delivery of siRNA in vitro and in vivo using PEI-capped porous silicon nanoparticles to silence MRP1 and inhibit proliferation in glioblastoma. <i>Journal of Nanobiotechnology</i> , 2018, 16, 38.	9.1	67
120	Methodologies and approaches for the analysis of cell-nanoparticle interactions. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2018, 10, e1486.	6.1	36
121	The Essential Elements of a Risk Governance Framework for Current and Future Nanotechnologies. <i>Risk Analysis</i> , 2018, 38, 1321-1331.	2.7	27
122	Advances in Nanoporous Anodic Alumina-Based Biosensors to Detect Biomarkers of Clinical Significance: A Review. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700904.	7.6	70
123	Uptake and transcytosis of functionalized superparamagnetic iron oxide nanoparticles in an <i>in vitro</i> blood brain barrier model. <i>Biomaterials Science</i> , 2018, 6, 314-323.	5.4	36
124	Optimization of binding B-lymphocytes in a microfluidic channel: surface modification, stasis time and shear response. <i>Biofabrication</i> , 2018, 10, 014101.	7.1	11
125	Manipulating human dendritic cell phenotype and function with targeted porous silicon nanoparticles. <i>Biomaterials</i> , 2018, 155, 92-102.	11.4	34
126	A label-free optical biosensor based on nanoporous anodic alumina for tumour necrosis factor-alpha detection in chronic wounds. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 116-123.	7.8	36



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127	Novel peptidylated surfaces for interference-free electrochemical detection of cardiac troponin I. <i>Biosensors and Bioelectronics</i> , 2018, 99, 486-492.	10.1	53
128	Tunable 2D binary colloidal alloys for soft nanotemplating. <i>Nanoscale</i> , 2018, 10, 22189-22195.	5.6	44
129	Nanoporous Anodic Alumina Photonic Crystals for Optical Chemo- and Biosensing: Fundamentals, Advances, and Perspectives. <i>Nanomaterials</i> , 2018, 8, 788.	4.1	56
130	High-Throughput Assessment and Modeling of a Polymer Library Regulating Human Dental Pulp-Derived Stem Cell Behavior. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 38739-38748.	8.0	17
131	Near-Field Mapping of Localized Plasmon Resonances in Metal-Free, Nanomembrane Graphene for Mid-Infrared Sensing Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 6454-6462.	5.0	12
132	Electrochemical deposition of aminomalonitrile based films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 552, 124-129.	4.7	15
133	Microengineered Bioartificial Liver Chip for Drug Toxicity Screening. <i>Advanced Functional Materials</i> , 2018, 28, 1801825.	14.9	50
134	Mitochondrial imaging in live or fixed tissues using a luminescent iridium complex. <i>Scientific Reports</i> , 2018, 8, 8191.	3.3	29
135	Identification and <i>In Vitro</i> Expansion of Buccal Epithelial Cells. <i>Cell Transplantation</i> , 2018, 27, 957-966.	2.5	2
136	Murine and Non-Human Primate Dendritic Cell Targeting Nanoparticles for <i>In Vivo</i> Generation of Regulatory T-Cells. <i>ACS Nano</i> , 2018, 12, 6637-6647.	14.6	43
137	Electrospun Composites of Polycaprolactone and Porous Silicon Nanoparticles for the Tunable Delivery of Small Therapeutic Molecules. <i>Nanomaterials</i> , 2018, 8, 205.	4.1	13
138	Performance optimisation of porous silicon rugate filter biosensor for the detection of insulin. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 1313-1322.	7.8	30
139	A complementary forensic <i>proteo-genomic</i> ™ approach for the direct identification of biological fluid traces under fingernails. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 6165-6175.	3.7	12
140	Hyaluronic Acid-Modified Porous Silicon Films for the Electrochemical Sensing of Bacterial Hyaluronidase. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800178.	3.9	12
141	Oxygen-permeable microwell device maintains islet mass and integrity during shipping. <i>Endocrine Connections</i> , 2018, 7, 490-503.	1.9	8
142	Porous silicon-poly( $\epsilon$ -caprolactone) film composites: evaluation of drug release and degradation behavior. <i>Biomedical Microdevices</i> , 2018, 20, 71.	2.8	5
143	Light-Emitting Biocomposites: Stable White Light-Emitting Biocomposite Films ( <i>Adv. Funct. Mater.</i> ) Tj ETQq1 1 0,784314,rgBT /Over 14,9 2	14.9	2
144	Biocompatibility of Porous Silicon. , 2018, , 533-545.		1

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145	Wound Management Using Porous Silicon. , 2018, , 1433-1452.		0
146	Cell Culture on Porous Silicon. , 2018, , 713-728.		0
147	Novel protein constituents of pathological ocular pseudoexfoliation syndrome deposits identified with mass spectrometry. Molecular Vision, 2018, 24, 801-817.	1.1	14
148	Non-invasive, in vitro analysis of islet insulin production enabled by an optical porous silicon biosensor. Biosensors and Bioelectronics, 2017, 91, 515-522.	10.1	36
149	Fabrication of Nanostructured Mesoporous Germanium for Application in Laser Desorption Ionization Mass Spectrometry. ACS Applied Materials & Interfaces, 2017, 9, 5092-5099.	8.0	21
150	Complete transformation of ZnO and CuO nanoparticles in culture medium and lymphocyte cells during toxicity testing. Nanotoxicology, 2017, 11, 150-156.	3.0	23
151	Wound Healing: Delivery of Flightless I Neutralizing Antibody from Porous Silicon Nanoparticles Improves Wound Healing in Diabetic Mice (Adv. Healthcare Mater. 2/2017). Advanced Healthcare Materials, 2017, 6, .	7.6	0
152	Electrochemical fingerprints of brominated trihaloacetic acids (HAA3) mixtures in water. Sensors and Actuators B: Chemical, 2017, 247, 70-77.	7.8	17
153	Rapid fabrication of functionalised poly(dimethylsiloxane) microwells for cell aggregate formation. Biomaterials Science, 2017, 5, 828-836.	5.4	17
154	Combined thermal and FTIR analysis of porous silicon based nano-energetic films. RSC Advances, 2017, 7, 7338-7345.	3.6	14
155	Affinity Binding of EMR2 Expressing Cells by Surface-Grafted Chondroitin Sulfate B. Biomacromolecules, 2017, 18, 1697-1704.	5.4	6
156	Singlet Oxygen Detection on a Nanostructured Porous Silicon Thin Film via Photonic Luminescence Enhancements. Langmuir, 2017, 33, 8606-8613.	3.5	15
157	Rapid detection of nicotine from breath using desorption ionisation on porous silicon. Chemical Communications, 2017, 53, 5224-5226.	4.1	8
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