

# 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	Recent developments in PDMS surface modification for microfluidic devices. <i>Electrophoresis</i> , 2010, 31, 2-16.	2.4	692
2	Nanoporous anodic aluminium oxide: Advances in surface engineering and emerging applications. <i>Progress in Materials Science</i> , 2013, 58, 636-704.	32.8	467
3	Antibacterial and Anti-Inflammatory pH-Responsive Tannic Acid-Carboxylated Agarose Composite Hydrogels for Wound Healing. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 28511-28521.	8.0	464
4	Stimuli-responsive interfaces and systems for the control of protein-surface and cell-surface interactions. <i>Biomaterials</i> , 2009, 30, 1827-1850.	11.4	422
5	Porous silicon biosensors on the advance. <i>Trends in Biotechnology</i> , 2009, 27, 230-239.	9.3	403
6	Sensors and imaging for wound healing: A review. <i>Biosensors and Bioelectronics</i> , 2013, 41, 30-42.	10.1	352
7	Diatomaceous Lessons in Nanotechnology and Advanced Materials. <i>Advanced Materials</i> , 2009, 21, 2947-2958.	21.0	342
8	The biocompatibility of porous silicon in tissues of the eye. <i>Biomaterials</i> , 2009, 30, 2873-2880.	11.4	299
9	Evaluation of mammalian cell adhesion on surface-modified porous silicon. <i>Biomaterials</i> , 2006, 27, 4538-4546.	11.4	278
10	Surface modification for PDMS-based microfluidic devices. <i>Electrophoresis</i> , 2012, 33, 89-104.	2.4	263
11	DNA-Based Photonic Logic Gates: AND, NAND, and INHIBIT. <i>Journal of the American Chemical Society</i> , 2003, 125, 346-347.	13.7	254
12	Targeted drug delivery using genetically engineered diatom biosilica. <i>Nature Communications</i> , 2015, 6, 8791.	12.8	226
13	Pore Architecture of Diatom Frustules: Potential Nanostructured Membranes for Molecular and Particle Separations. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 982-989.	0.9	185
14	Rhodamine-Functionalized Graphene Quantum Dots for Detection of Fe <sup>3+</sup> in Cancer Stem Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 23958-23966.	8.0	163
15	Advances in Microfluidic Blood-Brain Barrier (BBB) Models. <i>Trends in Biotechnology</i> , 2019, 37, 1295-1314.	9.3	160
16	Enhanced adsorption of mercury ions on thiol derivatized single wall carbon nanotubes. <i>Journal of Hazardous Materials</i> , 2013, 261, 534-541.	12.4	158
17	Calcium(II) selectively induces $\alpha$ -synuclein annular oligomers via interaction with the C-terminal domain. <i>Protein Science</i> , 2009, 13, 3245-3252.	7.6	143
18	Development of Polymeric Nanoparticles for Blood-Brain Barrier Transfer Strategies and Challenges. <i>Advanced Science</i> , 2021, 8, 2003937.	11.2	143

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19	Rapid Fabrication of Micro- and Nanoscale Patterns by Replica Molding from Diatom Biosilica. <i>Advanced Functional Materials</i> , 2007, 17, 2439-2446.	14.9	136
20	AFM Nanoindentations of Diatom Biosilica Surfaces. <i>Langmuir</i> , 2007, 23, 5014-5021.	3.5	130
21	Inducing immune tolerance with dendritic cell-targeting nanomedicines. <i>Nature Nanotechnology</i> , 2021, 16, 37-46.	31.5	129
22	Screening of rat mesenchymal stem cell behaviour on polydimethylsiloxane stiffness gradients. <i>Acta Biomaterialia</i> , 2012, 8, 519-530.	8.3	126
23	Benzene carboxylic acid derivatized graphene oxide nanosheets on natural zeolites as effective adsorbents for cationic dye removal. <i>Journal of Hazardous Materials</i> , 2013, 260, 330-338.	12.4	125
24	Engineering vertically aligned semiconductor nanowire arrays for applications in the life sciences. <i>Nano Today</i> , 2014, 9, 172-196.	11.9	125
25	Controlled pore structure modification of diatoms by atomic layer deposition of TiO <sub>2</sub> . <i>Journal of Materials Chemistry</i> , 2006, 16, 4029.	6.7	116
26	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
27	Antibody-Functionalized Porous Silicon Nanoparticles for Vectorization of Hydrophobic Drugs. <i>Advanced Healthcare Materials</i> , 2013, 2, 718-727.	7.6	113
28	Using continuous porous silicon gradients to study the influence of surface topography on the behaviour of neuroblastoma cells. <i>Experimental Cell Research</i> , 2008, 314, 789-800.	2.6	109
29	Screening Mesenchymal Stem Cell Attachment and Differentiation on Porous Silicon Gradients. <i>Advanced Functional Materials</i> , 2012, 22, 3414-3423.	14.9	109
30	Stimulus-Responsiveness and Drug Release from Porous Silicon Films ATRP-Grafted with Poly( <i>N</i> -isopropylacrylamide). <i>Langmuir</i> , 2011, 27, 7843-7853.	3.5	108
31	Polydopamine Nanoparticles as a New and Highly Selective Biosorbent for the Removal of Copper (II) Ions from Aqueous Solutions. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 3535-3544.	2.4	107
32	Skin in the diagnostics game: Wearable biosensor nano- and microsystems for medical diagnostics. <i>Nano Today</i> , 2020, 30, 100828.	11.9	106
33	Maximizing Transfection Efficiency of Vertically Aligned Silicon Nanowire Arrays. <i>Advanced Functional Materials</i> , 2015, 25, 7215-7225.	14.9	103
34	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
35	Fully Tunable Silicon Nanowire Arrays Fabricated by Soft Nanoparticle Templating. <i>Nano Letters</i> , 2016, 16, 157-163.	9.1	98
36	Atomic force microscopy (AFM) characterisation of the porous silica nanostructure of two centric diatoms. <i>Journal of Porous Materials</i> , 2007, 14, 61-69.	2.6	93

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37	Stimulus-cleavable chemistry in the field of controlled drug delivery. <i>Chemical Society Reviews</i> , 2021, 50, 4872-4931.	38.1	93
38	Dual Silane Surface Functionalization for the Selective Attachment of Human Neuronal Cells to Porous Silicon. <i>Langmuir</i> , 2011, 27, 9497-9503.	3.5	92
39	Advances in Porous Silicon-Based Nanomaterials for Diagnostic and Therapeutic Applications. <i>Advanced Therapeutics</i> , 2019, 2, 1800095.	3.2	92
40	DNA hybridization-enhanced porous silicon corrosion: mechanistic investigations and prospect for optical interferometric biosensing. <i>Tetrahedron</i> , 2004, 60, 11259-11267.	1.9	91
41	Bioelectronic tongues: New trends and applications in water and food analysis. <i>Biosensors and Bioelectronics</i> , 2016, 79, 608-626.	10.1	91
42	Patterned and switchable surfaces for biomolecular manipulation. <i>Acta Biomaterialia</i> , 2009, 5, 2350-2370.	8.3	88
43	Mechanically Tunable Bioink for 3D Bioprinting of Human Cells. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700255.	7.6	86
44	Surface-assisted laser desorption ionization mass spectrometry techniques for application in forensics. <i>Mass Spectrometry Reviews</i> , 2015, 34, 627-640.	5.4	85
45	Fabrication of gold nanostructures by templating from porous diatom frustules. <i>New Journal of Chemistry</i> , 2006, 30, 908.	2.8	84
46	Porous Silicon Nanodiscs for Targeted Drug Delivery. <i>Advanced Functional Materials</i> , 2015, 25, 1137-1145.	14.9	82
47	Fabrication of stimulus-responsive diatom biosilica microcapsules for antibiotic drug delivery. <i>Journal of Materials Chemistry B</i> , 2015, 3, 4325-4329.	5.8	81
48	Silicon-polymer hybrid materials for drug delivery. <i>Future Medicinal Chemistry</i> , 2009, 1, 1051-1074.	2.3	80
49	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
50	Thin calcium phosphate coatings on titanium by electrochemical deposition in modified simulated body fluid. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 76A, 347-355.	4.0	79
51	Surface manipulation of biomolecules for cell microarray applications. <i>Trends in Biotechnology</i> , 2006, 24, 471-477.	9.3	76
52	Porous Silicon Resonant Microcavity Biosensor for Matrix Metalloproteinase Detection. <i>Advanced Functional Materials</i> , 2014, 24, 3639-3650.	14.9	76
53	Combination of iCVD and Porous Silicon for the Development of a Controlled Drug Delivery System. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 3566-3574.	8.0	75
54	Applications of modern sensors and wireless technology in effective wound management. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014, 102, 885-895.	3.4	74

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55	Sequence-Addressable DNA Logic. <i>Small</i> , 2008, 4, 427-431.	10.0	73
56	DNA Melting and Genotoxicity Induced by Silver Nanoparticles and Graphene. <i>Chemical Research in Toxicology</i> , 2015, 28, 1023-1035.	3.3	73
57	Targeted camptothecin delivery via silicon nanoparticles reduces breast cancer metastasis. <i>Biomaterials</i> , 2020, 240, 119791.	11.4	73
58	Biosensing Using Lipid Bilayers Suspended on Porous Silicon. <i>Langmuir</i> , 2006, 22, 7078-7083.	3.5	72
59	Nanoporous anodic aluminium oxide membranes with layered surface chemistry. <i>Chemical Communications</i> , 2009, , 3062.	4.1	72
60	Evaluation of mesoporous silicon/polycaprolactone composites as ophthalmic implants. <i>Acta Biomaterialia</i> , 2010, 6, 3566-3572.	8.3	71
61	Annular alpha-synuclein species from purified multiple system atrophy inclusions. <i>Journal of Neurochemistry</i> , 2004, 90, 502-512.	3.9	70
62	Dressing in Layers: Layering Surface Functionalities in Nanoporous Aluminum Oxide Membranes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7933-7937.	13.8	70
63	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
64	Bridging the divide between human and environmental nanotoxicology. <i>Nature Nanotechnology</i> , 2015, 10, 835-844.	31.5	68
65	Microfluidic Electrochemical Sensor for Cerebrospinal Fluid and Blood Dopamine Detection in a Mouse Model of Parkinson's Disease. <i>Analytical Chemistry</i> , 2020, 92, 12347-12355.	6.5	68
66	Bacteriophage uptake by mammalian cell layers represents a potential sink that may impact phage therapy. <i>IScience</i> , 2021, 24, 102287.	4.1	68
67	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
68	Annular alpha-synuclein oligomers are potentially toxic agents in alpha-synucleinopathy. <i>Hypothesis. Neurotoxicity Research</i> , 2005, 7, 59-67.	2.7	66
69	Complex gold nanostructures derived by templating from diatom frustules. <i>Chemical Communications</i> , 2005, , 4905.	4.1	66
70	Transdermal Electrochemical Monitoring of Glucose via High-Density Silicon Microneedle Array Patch. <i>Advanced Functional Materials</i> , 2022, 32, 2009850.	14.9	66
71	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
72	Controlled drug delivery from composites of nanostructured porous silicon and poly(L-lactide). <i>Nanomedicine</i> , 2012, 7, 995-1016.	3.3	62

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73	Cellular binding, uptake and biotransformation of silver nanoparticles in human T lymphocytes. <i>Nature Nanotechnology</i> , 2021, 16, 926-932.	31.5	62
74	Micropatterning of Porous Silicon Films by Direct Laser Writing. <i>Biotechnology Progress</i> , 2008, 22, 1388-1393.	2.6	61
75	Insights into Cellular Uptake of Nanoparticles. <i>Current Drug Delivery</i> , 2015, 12, 63-77.	1.6	60
76	Advanced Substrate Fabrication for Cell Microarrays. <i>Biomacromolecules</i> , 2009, 10, 573-579.	5.4	59
77	Creating gradients of two proteins by differential passive adsorption onto a PEG-density gradient. <i>Biomaterials</i> , 2010, 31, 392-397.	11.4	59
78	Combined Immunocapture and Laser Desorption/Ionization Mass Spectrometry on Porous Silicon. <i>Analytical Chemistry</i> , 2010, 82, 4201-4208.	6.5	58
79	Development of flexible supercapacitors using an inexpensive graphene/PEDOT/MnO <sub>2</sub> sponge composite. <i>Materials and Design</i> , 2017, 125, 1-10.	7.0	58
80	Cellular Deformations Induced by Conical Silicon Nanowire Arrays Facilitate Gene Delivery. <i>Small</i> , 2019, 15, e1904819.	10.0	58
81	Growth Kinetics and Modeling of ZnO Nanoparticles. <i>Journal of Chemical Education</i> , 2005, 82, 775.	2.3	56
82	Nanoporous Anodic Alumina Photonic Crystals for Optical Chemo- and Biosensing: Fundamentals, Advances, and Perspectives. <i>Nanomaterials</i> , 2018, 8, 788.	4.1	56
83	Gold microneedles fabricated by casting of gold ink used for urea sensing. <i>Materials Letters</i> , 2019, 243, 50-53.	2.6	56
84	Porous polymeric membranes: fabrication techniques and biomedical applications. <i>Journal of Materials Chemistry B</i> , 2021, 9, 2129-2154.	5.8	56
85	Fabrication of gold nanorod arrays by templating from porous alumina. <i>Nanotechnology</i> , 2005, 16, 2275-2281.	2.6	55
86	Silicon diatom frustules as nanostructured photoelectrodes. <i>Chemical Communications</i> , 2014, 50, 10441.	4.1	55
87	Multifunctional Polymer Coatings for Cell Microarray Applications. <i>Biomacromolecules</i> , 2009, 10, 1163-1172.	5.4	54
88	Surface-assisted laser desorption/ionization mass spectrometry using ordered silicon nanopillar arrays. <i>Analyst</i> , 2014, 139, 5999-6009.	3.5	54
89	Thiol-Capped Gold Nanoparticles Swell-Encapsulated into Polyurethane as Powerful Antibacterial Surfaces Under Dark and Light Conditions. <i>Scientific Reports</i> , 2016, 6, 39272.	3.3	54
90	A biochip platform for cell transfection assays. <i>Biosensors and Bioelectronics</i> , 2004, 19, 1395-1400.	10.1	53

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91	XPS and bioactivity study of the bisphosphonate pamidronate adsorbed onto plasma sprayed hydroxyapatite coatings. <i>Applied Surface Science</i> , 2006, 253, 2644-2651.	6.1	53
92	Fabrication and Characterization of a Porous Silicon Drug Delivery System with an Initiated Chemical Vapor Deposition Temperature-Responsive Coating. <i>Langmuir</i> , 2016, 32, 301-308.	3.5	53
93	Novel peptidylated surfaces for interference-free electrochemical detection of cardiac troponin I. <i>Biosensors and Bioelectronics</i> , 2018, 99, 486-492.	10.1	53
94	Electrochemical immunosensor for breast cancer biomarker detection using high-density silicon microneedle array. <i>Biosensors and Bioelectronics</i> , 2021, 192, 113496.	10.1	53
95	A synthetic lipopeptide targeting top-priority multidrug-resistant Gram-negative pathogens. <i>Nature Communications</i> , 2022, 13, 1625.	12.8	53
96	Lab-on-a-Chip Based High-Throughput Screening of the Genotoxicity of Engineered Nanomaterials. <i>Small</i> , 2014, 10, 2721-2734.	10.0	52
97	Functionalization of silicone rubber for the covalent immobilization of fibronectin. <i>Journal of Materials Science: Materials in Medicine</i> , 2001, 12, 111-119.	3.6	51
98	Fabrication of self-supporting porous silicon membranes and tuning transport properties by surface functionalization. <i>Nanoscale</i> , 2010, 2, 1756.	5.6	51
99	Silicon Nanotube Mediated Intracellular Delivery Enables Ex Vivo Gene Editing. <i>Advanced Materials</i> , 2020, 32, e2000036.	21.0	51
100	Interferometric porous silicon transducers using an enzymatically amplified optical signal. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 341-348.	7.8	50
101	The Burning Rate of Energetic Films of Nanostructured Porous Silicon. <i>Small</i> , 2011, 7, 3392-3398.	10.0	50
102	Microengineered Bioartificial Liver Chip for Drug Toxicity Screening. <i>Advanced Functional Materials</i> , 2018, 28, 1801825.	14.9	50
103	Exploring the mesenchymal stem cell niche using high throughput screening. <i>Biomaterials</i> , 2013, 34, 7601-7615.	11.4	49
104	Lanthanide Luminescence Enhancements in Porous Silicon Resonant Microcavities. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 12012-12021.	8.0	49
105	A flexible and low power telemetric sensing and monitoring system for chronic wound diagnostics. <i>BioMedical Engineering OnLine</i> , 2015, 14, 17.	2.7	49
106	Versatile Particle-Based Route to Engineer Vertically Aligned Silicon Nanowire Arrays and Nanoscale Pores. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 23717-23724.	8.0	49
107	Electrochemical Micropyramid Array-Based Sensor for <i>In Situ</i> Monitoring of Dopamine Released from Neuroblastoma Cells. <i>Analytical Chemistry</i> , 2020, 92, 7746-7753.	6.5	49
108	Dense Arrays of Uniform Submicron Pores in Silicon and Their Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 1160-1169.	8.0	48

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109	The Role of Diatom Nanostructures in Biasing Diffusion to Improve Uptake in a Patchy Nutrient Environment. PLoS ONE, 2013, 8, e59548.	2.5	48
110	Rapid detection of illicit drugs in neat saliva using desorption/ionization on porous silicon. Talanta, 2012, 99, 791-798.	5.5	47
111	Gold-Decorated Porous Silicon Nanopillars for Targeted Hyperthermal Treatment of Bacterial Infections. ACS Applied Materials & Interfaces, 2017, 9, 33707-33716.	8.0	47
112	Tutorial: using nanoneedles for intracellular delivery. Nature Protocols, 2021, 16, 4539-4563.	12.0	47
113	Mass Spectrometry Imaging on Porous Silicon: Investigating the Distribution of Bioactives in Marine Mollusc Tissues. Analytical Chemistry, 2012, 84, 8996-9001.	6.5	46
114	Electrochemical Biosensors Featuring Oriented Antibody Immobilization via Electrografted and Self-Assembled Hydrazide Chemistry. Analytical Chemistry, 2014, 86, 1422-1429.	6.5	46
115	Recent Advances on Luminescent Enhancement-Based Porous Silicon Biosensors. Pharmaceutical Research, 2016, 33, 2314-2336.	3.5	46
116	Nitric oxide-releasing porous silicon nanoparticles. Nanoscale Research Letters, 2014, 9, 333.	5.7	45
117	Mass spectrometry imaging of fingerprint sweat on nanostructured silicon. Chemical Communications, 2015, 51, 6088-6091.	4.1	45
118	Nanostructured silicon photoelectrodes for solar water electrolysis. Nano Energy, 2015, 17, 308-322.	16.0	45
119	Antibacterial properties of nitric oxide-releasing porous silicon nanoparticles. Journal of Materials Chemistry B, 2016, 4, 2051-2058.	5.8	45
120	Emerging Roles of 1D Vertical Nanostructures in Orchestrating Immune Cell Functions. Advanced Materials, 2020, 32, e2001668.	21.0	45
121	Ordered Silicon Pillar Arrays Prepared by Electrochemical Micromachining: Substrates for High-Efficiency Cell Transfection. ACS Applied Materials & Interfaces, 2016, 8, 29197-29202.	8.0	45
122	Screening rat mesenchymal stem cell attachment and differentiation on surface chemistries using plasma polymer gradients. Acta Biomaterialia, 2015, 11, 58-67.	8.3	44
123	Tunable 2D binary colloidal alloys for soft nanotemplating. Nanoscale, 2018, 10, 22189-22195.	5.6	44
124	ELOVL5 Is a Critical and Targetable Fatty Acid Elongase in Prostate Cancer. Cancer Research, 2021, 81, 1704-1718.	0.9	44
125	Thermosensitive Copolymer Coatings with Enhanced Wettability Switching. Langmuir, 2008, 24, 4238-4244.	3.5	43
126	Micropatterned Arrays of Porous Silicon: Toward Sensory Biointerfaces. ACS Applied Materials & Interfaces, 2011, 3, 2463-2471.	8.0	43

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127	Beta-cyclodextrin decorated nanostructured SERS substrates facilitate selective detection of endocrine disruptor chemicals. <i>Biosensors and Bioelectronics</i> , 2013, 42, 632-639.	10.1	43
128	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
129	Porous Silicon Films Micropatterned with Bioelements as Supports for Mammalian Cells. <i>Advanced Functional Materials</i> , 2012, 22, 1158-1166.	14.9	42
130	Study of the optical properties of a thermoresponsive polymer grafted onto porous silicon scaffolds. <i>New Journal of Chemistry</i> , 2013, 37, 228-235.	2.8	42
131	Evaluation of $\alpha$ -D-mannopyranoside glycolipid micelles' lectin interactions by surface plasmon resonance method. <i>Glycobiology</i> , 2006, 16, 822-832.	2.5	41
132	Surface-Initiated Hyperbranched Polyglycerol as an Ultralow-Fouling Coating on Glass, Silicon, and Porous Silicon Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 15243-15252.	8.0	41
133	Synergistic influence of collagen I and BMP 2 drives osteogenic differentiation of mesenchymal stem cells: A cell microarray analysis. <i>Acta Biomaterialia</i> , 2016, 34, 41-52.	8.3	41
134	Precision Surface Microtopography Regulates Cell Fate via Changes to Actomyosin Contractility and Nuclear Architecture. <i>Advanced Science</i> , 2021, 8, 2003186.	11.2	41
135	Chemically patterned porous silicon photonic crystals towards internally referenced organic vapour sensors. <i>RSC Advances</i> , 2012, 2, 4620.	3.6	40
136	Comparison of the performance of different silicon-based SALDI substrates for illicit drug detection. <i>Talanta</i> , 2015, 132, 494-502.	5.5	40
137	Fabrication of silicon nanowire arrays by near-field laser ablation and metal-assisted chemical etching. <i>Nanotechnology</i> , 2016, 27, 075301.	2.6	40
138	Label-Free Bacterial Toxin Detection in Water Supplies Using Porous Silicon Nanochannel Sensors. <i>ACS Sensors</i> , 2019, 4, 1515-1523.	7.8	40
139	Engineered nano-bio interfaces for intracellular delivery and sampling: Applications, agency and artefacts. <i>Materials Today</i> , 2020, 33, 87-104.	14.2	40
140	Material Properties of Lipid Microdomains: Force-Volume Imaging Study of the Effect of Cholesterol on Lipid Microdomain Rigidity. <i>Biophysical Journal</i> , 2010, 99, 834-844.	0.5	39
141	Nanoporous alumina-based interferometric transducers ennobled. <i>Nanoscale</i> , 2011, 3, 3109.	5.6	39
142	Towards a subcutaneous optical biosensor based on thermally hydrocarbonised porous silicon. <i>Biomaterials</i> , 2016, 74, 217-230.	11.4	39
143	Jellyfish-Based Smart Wound Dressing Devices Containing In Situ Synthesized Antibacterial Nanoparticles. <i>Advanced Functional Materials</i> , 2019, 29, 1902783.	14.9	39
144	Spatially controlled electro-stimulated DNA adsorption and desorption for biochip applications. <i>Biosensors and Bioelectronics</i> , 2006, 21, 2137-2145.	10.1	38

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145	Advances in telemetric continuous intraocular pressure assessment. <i>British Journal of Ophthalmology</i> , 2009, 93, 992-996.	3.9	38
146	New biodegradable materials produced by ring opening polymerisation of poly(L-lactide) on porous silicon substrates. <i>Journal of Colloid and Interface Science</i> , 2009, 332, 336-344.	9.4	38
147	Atomic force microscopy-based antibody recognition imaging of proteins in the pathological deposits in Pseudoexfoliation Syndrome. <i>Ultramicroscopy</i> , 2011, 111, 1055-1061.	1.9	38
148	A quantum dot sensitized catalytic porous silicon photocathode. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9478-9481.	10.3	38
149	Catalyzed Oxidative Corrosion of Porous Silicon Used as an Optical Transducer for Ligand-Receptor Interactions. <i>ChemBioChem</i> , 2008, 9, 1776-1786.	2.6	37
150	MALDI-MS-Imaging of Whole Human Lens Capsule. <i>Journal of Proteome Research</i> , 2011, 10, 3522-3529.	3.7	37
151	Electrochemistry-enabled fabrication of orthogonal nanotopography and surface chemistry gradients for high-throughput screening. <i>Lab on A Chip</i> , 2012, 12, 1480.	6.0	37
152	Assessing embryonic stem cell response to surface chemistry using plasma polymer gradients. <i>Acta Biomaterialia</i> , 2012, 8, 1739-1748.	8.3	37
153	Radiofrequency-triggered release for on-demand delivery of therapeutics from titania nanotube drug-eluting implants. <i>Nanomedicine</i> , 2014, 9, 1263-1275.	3.3	37
154	Development of L-lactate dehydrogenase biosensor based on porous silicon resonant microcavities as fluorescence enhancers. <i>Biosensors and Bioelectronics</i> , 2015, 74, 637-643.	10.1	37
155	Nitric oxide releasing plasma polymer coating with bacteriostatic properties and no cytotoxic side effects. <i>Chemical Communications</i> , 2015, 51, 7058-7060.	4.1	37
156	Porous silicon membrane-modified electrodes for label-free voltammetric detection of MS2 bacteriophage. <i>Biosensors and Bioelectronics</i> , 2016, 80, 47-53.	10.1	37
157	Spatially Controlled Surface Modification of Porous Silicon for Sustained Drug Delivery Applications. <i>Scientific Reports</i> , 2019, 9, 1367.	3.3	37
158	Engineering, Characterization and Directional Self-Assembly of Anisotropically Modified Nanocolloids. <i>Small</i> , 2011, 7, 812-819.	10.0	36
159	Aptamer sensor for cocaine using minor groove binder based energy transfer. <i>Analytica Chimica Acta</i> , 2012, 719, 76-81.	5.4	36
160	Antibacterial properties of silver dendrite decorated silicon nanowires. <i>RSC Advances</i> , 2016, 6, 65976-65987.	3.6	36
161	Non-invasive, in vitro analysis of islet insulin production enabled by an optical porous silicon biosensor. <i>Biosensors and Bioelectronics</i> , 2017, 91, 515-522.	10.1	36
162	Methodologies and approaches for the analysis of cell-nanoparticle interactions. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2018, 10, e1486.	6.1	36

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