Luca De Stefano

List of Publications by Year
in descending order

250	5,552	71004	145109
papers	citations	43 h-index	60 g-index

256	256	256	5485
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	H³ (Hydrogelâ€Based, Highâ€Sensitivity, Hybrid) Plasmonic Transducers for Biomolecular Interactions Monitoring. Advanced Materials Technologies, 2022, 7, .	3.0	8
2	Antifungal and Antibiofilm Activity of Cyclic Temporin L Peptide Analogues against Albicans and Non-Albicans Candida Species. Pharmaceutics, 2022, 14, 454.	2.0	18
3	Plasmonic Nanosensors: Design, Fabrication, and Applications in Biomedicine. Chemosensors, 2022, 10, 150.	1.8	23
4	Diatomite-based nanoparticles: Fabrication strategies for medical applications. , 2022, , 427-446.		1
5	F-doped ZnO nano- and meso-crystals with enhanced photocatalytic activity in diclofenac degradation. Science of the Total Environment, 2021, 762, 143066.	3.9	37
6	Hybrid Organic/Inorganic Nanomaterials for Biochemical Sensing. Lecture Notes in Electrical Engineering, 2021, , 93-99.	0.3	4
7	Bioconjugation of Peptides to Hybrid Gold Nanoparticles. Methods in Molecular Biology, 2021, 2355, 105-115.	0.4	1
8	Bioconjugation of a PNA Probe to Zinc Oxide Nanowires for Label-Free Sensing. Nanomaterials, 2021, 11, 523.	1.9	9
9	Porous Silicon Optical Devices: Recent Advances in Biosensing Applications. Sensors, 2021, 21, 1336.	2.1	55
10	One-Shot Fabrication of Polymeric Hollow Microneedles by Standard Photolithography. Polymers, 2021, 13, 520.	2.0	34
11	Recent Advances in the Fabrication and Functionalization of Flexible Optical Biosensors: Toward Smart Life-Sciences Applications. Biosensors, 2021, 11, 107.	2.3	31
12	Oxygen indicator films of acrylate photopolymers and TiO₂ nanoparticles with tunable response times. Optical Materials Express, 2021, 11, 2244.	1.6	8
13	SERS Quantification of Galunisertib Delivery in Colorectal Cancer Cells by Plasmonicâ€Assisted Diatomite Nanoparticles. Small, 2021, 17, e2101711.	5.2	32
14	Design of Gelatin-Capped Plasmonic-Diatomite Nanoparticles with Enhanced Galunisertib Loading Capacity for Drug Delivery Applications. International Journal of Molecular Sciences, 2021, 22, 10755.	1.8	16
15	Underwater Light Manipulation by the Benthic Diatom Ctenophora pulchella: From PAR Efficient Collection to UVR Screening. Nanomaterials, 2021, 11, 2855.	1.9	6
16	Intracellular SERS monitoring of drug release from plasmonic-assisted biosilica nanoparticles. EPJ Web of Conferences, 2021, 255, 13002.	0.1	0
17	Plasmonic Hydrogel Nanocomposites with Combined Optical and Mechanical Properties for Biochemical Sensing. , 2021, 5, .		0
18	Nanostructured Biosilica of Diatoms: From Water World to Biomedical Applications. Applied Sciences (Switzerland), 2020, 10, 6811.	1.3	39

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19	PNA-Based Graphene Oxide/Porous Silicon Hybrid Biosensor: Towards a Label-Free Optical Assay for Brugada Syndrome. Nanomaterials, 2020, 10, 2233.	1.9	10
20	Timeâ€gated luminescence imaging of positively charged polyâ€lâ€lysineâ€coated highly microporous silicon nanoparticles in living Hydra polyp. Journal of Biophotonics, 2020, 13, e202000272.	1.1	10
21	InÂVivo Bioengineering of Fluorescent Conductive Protein-Dye Microfibers. IScience, 2020, 23, 101022.	1.9	8
22	Ï€â€“Ï€ stacked DNA G-wire nanostructures formed by a short G-rich oligonucleotide containing a 3â€²â€“3â€² inversion of polarity site. Organic Chemistry Frontiers, 2020, 7, 2187-2195.	2.3	8
23	Photocatalytic hydrogen evolution by co-catalyst-free TiO₂/C bulk heterostructures synthesized under mild conditions. RSC Advances, 2020, 10, 12519-12534.	1.7	25
24	Hydrogel-based Nanocomposite Plasmonic Sensors for Biomedical Applications. , 2020, , .		0
25	Characterization of a Surface-Active Protein Extracted from a Marine Strain of Penicillium chrysogenum. International Journal of Molecular Sciences, 2019, 20, 3242.	1.8	13
26	Synthesis and Surface Modification of Nanostructured F-Doped ZnO: Toward a Transducer for Label-Free Optical Biosensing. Applied Sciences (Switzerland), 2019, 9, 3380.	1.3	5
27	Porous Silicon Optical Biosensors: Still a Promise or a Failure?. Sensors, 2019, 19, 4776.	2.1	21
28	Denatured lysozyme-coated carbon nanotubes: a versatile biohybrid material. Scientific Reports, 2019, 9, 16643.	1.6	3
29	Design and Synthesis of Hybrid PEGylated Metal Monopicolinate Cyclam Ligands for Biomedical Applications. ACS Omega, 2019, 4, 2500-2509.	1.6	7
30	Porous Silicon-Based Aptasensors: The Next Generation of Label-Free Devices for Health Monitoring. Molecules, 2019, 24, 2216.	1.7	25
31	Polymeric Microneedle Arrays: Versatile Tools for an Innovative Approach to Drug Administration. Advanced Therapeutics, 2019, 2, 1900036.	1.6	22
32	Microneedles-based electrochemical sensors: New tools for advanced biosensing. Current Opinion in Electrochemistry, 2019, 17, 121-127.	2.5	44
33	Unraveling the Charge State of Oxygen Vacancies in ZrO_{2â€“x} on the Basis of Synergistic Computational and Experimental Evidence. Journal of Physical Chemistry C, 2019, 123, 11581-11590.	1.5	31
34	In Vivo Toxicity Assessment of Hybrid Diatomite Nanovectors Using Hydra vulgaris as a Model System. Advanced Biology, 2019, 3, e1800247.	3.0	15
35	Photoemissive properties and stability of undecylenic acid-modified porous silicon nanoparticles in physiological medium. Applied Physics Letters, 2019, 114, .	1.5	6
36	Functionalized Polymeric Materials with Bio-Derived Antimicrobial Peptides for â€œActiveâ€•Packaging. International Journal of Molecular Sciences, 2019, 20, 601.	1.8	32

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37	Recent Advances on Diatom-Based Biosensors. Sensors, 2019, 19, 5208.	2.1	18
38	Extending the Shelf-Life of Meat and Dairy Products via PET-Modified Packaging Activated With the Antimicrobial Peptide MTP1. Frontiers in Microbiology, 2019, 10, 2963.	1.5	33
39	Colorimetric Immunosensor by Aggregation of Photochemically Functionalized Gold Nanoparticles. ACS Omega, 2018, 3, 3805-3812.	1.6	67
40	Gold decorated porous biosilica nanodevices for advanced medicine. Nanotechnology, 2018, 29, 235601.	1.3	29
41	Quantification and Reduction of the Residual Chemical Reactivity of Passivated Biodegradable Porous Silicon for Drug Delivery Applications. Silicon, 2018, 10, 349-359.	1.8	17
42	Internalization kinetics and cytoplasmic localization of functionalized diatomite nanoparticles in cancer cells by Raman imaging. Journal of Biophotonics, 2018, 11, e201700207.	1.1	41
43	Toward Multi-Parametric Porous Silicon Transducers Based on Covalent Grafting of Graphene Oxide for Biosensing Applications. Frontiers in Chemistry, 2018, 6, 583.	1.8	8
44	Diatoms Green Nanotechnology for Biosilica-Based Drug Delivery Systems. Pharmaceutics, 2018, 10, 242.	2.0	66
45	Covalent grafting of graphene oxide on functionalized macroporous silicon. Open Material Sciences, 2018, 4, 15-22.	0.8	5
46	Small Synthetic Peptides Bioconjugated to Hybrid Gold Nanoparticles Destroy Potentially Deadly Bacteria at Submicromolar Concentrations. Bioconjugate Chemistry, 2018, 29, 3877-3885.	1.8	31
47	Hybrid Hydrophobin/Gold Nanoparticles: Synthesis and Characterization of New Synthetic Probes for Biological Applications. Lecture Notes in Electrical Engineering, 2018, , 169-176.	0.3	1
48	Porous Silicon for Microdevices and Microsystems. , 2018, , 1179-1187.		0
49	Diatomite nanovectors uptake in cancer cells: a Raman imaging study. , 2018, , .		0
50	Electronic properties of TiO₂-based materials characterized by high Ti³⁺ self-doping and low recombination rate of electronâ€“hole pairs. RSC Advances, 2017, 7, 2373-2381.	1.7	66
51	Chemical modification of TiO2 nanotube arrays for label-free optical biosensing applications. Applied Surface Science, 2017, 419, 235-240.	3.1	38
52	Selfâ€assembly of two hydrophobins from marine fungi affected by interaction with surfaces. Biotechnology and Bioengineering, 2017, 114, 2173-2186.	1.7	16
53	Modified denatured lysozyme effectively solubilizes fullerene c60 nanoparticles in water. Nanotechnology, 2017, 28, 335601.	1.3	10
54	Synthetic vs Natural: Diatoms Bioderived Porous Materials for the Next Generation of Healthcare Nanodevices. Advanced Healthcare Materials, 2017, 6, 1601125.	3.9	47

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55	Reversible sensing of heavy metal ions using lysine modified oligopeptides on porous silicon and gold. Sensors and Actuators B: Chemical, 2017, 244, 142-150.	4.0	16
56	Synthesis and characterization of Ag-Protoporphyrin nano structures using mixed co-polymer method. Frontiers in Laboratory Medicine, 2017, 1, 49-54.	1.7	5
57	Selfâ€Assembly of Gâ€Rich Oligonucleotides Incorporating a 3â€²â€“3â€² Inversion of Polarity Site: A New Route Towards Gâ€Wire DNA Nanostructures. ChemistryOpen, 2017, 6, 599-605.	0.9	24
58	Morphological, Structural, and Charge Transfer Properties of F-Doped ZnO: A Spectroscopic Investigation. Journal of Physical Chemistry C, 2017, 121, 16012-16020.	1.5	51
59	Rapid and ultrasensitive detection of active thrombin based on the Vmh2 hydrophobin fused to a Green Fluorescent Protein. Biosensors and Bioelectronics, 2017, 87, 816-822.	5.3	28
60	Peptide Functionalization of Silicon for Detection and Classification of Prostatic Cells. Journal of Sensors, 2017, 2017, 1-9.	0.6	4
61	Chemical and Structural Characterization of Several Mid-Term Explanted Breast Prostheses. Materials, 2016, 9, 678.	1.3	5
62	Nanogravimetric and Optical Characterizations of Thrombin Interaction with a Self-Assembled Thiolated Aptamer. Journal of Sensors, 2016, 2016, 1-8.	0.6	8
63	Diatom Valve Three-Dimensional Representation: A New Imaging Method Based on Combined Microscopies. International Journal of Molecular Sciences, 2016, 17, 1645.	1.8	7
64	Photoluminescence enhancement of graphene oxide emission by infiltration in an aperiodic porous silicon multilayer. Optics Express, 2016, 24, 24413.	1.7	16
65	Glucose sensing electrode system based on polymeric microneedles. , 2016, , .		2
66	Solid phase synthesis of a thrombin binding aptamer on macroporous silica for label free optical quantification of thrombin. RSC Advances, 2016, 6, 86762-86769.	1.7	39
67	Arsenate reductase from Thermus thermophilus conjugated to polyethylene glycol-stabilized gold nanospheres allow trace sensing and speciation of arsenic ions. Journal of the Royal Society Interface, 2016, 13, 20160629.	1.5	22
68	Electroless Gold-Modified Diatoms as Surface-Enhanced Raman Scattering Supports. Nanoscale Research Letters, 2016, 11, 315.	3.1	31
69	Bioengineered Silicon Diatoms: Adding Photonic Features to a Nanostructured Semiconductive Material for Biomolecular Sensing. Nanoscale Research Letters, 2016, 11, 405.	3.1	32
70	Polymeric microneedles based enzymatic electrodes for electrochemical biosensing of glucose and lactic acid. Sensors and Actuators B: Chemical, 2016, 236, 343-349.	4.0	91
71	Optically monitored drug delivery patch based on porous silicon and polymer microneedles. Biomedical Optics Express, 2016, 7, 1645.	1.5	31
72	Vmh2 hydrophobin layer entraps glucose: A quantitative characterization by label-free optical and gravimetric methods. Applied Surface Science, 2016, 364, 201-207.	3.1	10

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73	Class I Hydrophobin Vmh2 Adopts Atypical Mechanisms to Self-Assemble into Functional Amyloid Fibrils. Biomacromolecules, 2016, 17, 954-964.	2.6	29
74	Porous Silicon for Microdevices and Microsystems. , 2016, , 1-9.		0
75	Graphene oxide-based mesoporous silicon as tunable platform for optical applications. , 2015, , .		0
76	A Photolithographic Approach to Polymeric Microneedles Array Fabrication. Materials, 2015, 8, 8661-8673.	1.3	61
77	Microscopy assisted fabrication of a hydrogel-based microfluidic filter. Journal of the European Optical Society-Rapid Publications, 2015, 10, 15058.	0.9	4
78	Hybrid organic-inorganic semiconductor transducer for optical and electrical sensing. Proceedings of SPIE, 2015, , .	0.8	0
79	Photoluminescence of graphene oxide integrated with silicon substrates. , 2015, , .		0
80	Natural and synthetic nanostructured materials for biomedical applications. , 2015, , .		1
81	Diatomite nanoparticles as potential drug delivery systems. , 2015, , .		1
82	Versatile synthesis of ZnO nanowires for quantitative optical sensing of molecular biorecognition. Sensors and Actuators B: Chemical, 2015, 220, 705-711.	4.0	29
83	Hybrid microneedles devices for diagnostic and therapeutic applications: fabrication and preliminary results. Proceedings of SPIE, 2015, , .	0.8	0
84	A silicon-based peptide biosensor for label-free detection of cancer cells. , 2015, , .		2
85	Hybrid organicâ€“inorganic porous semiconductor transducer for multi-parameters sensing. Journal of the Royal Society Interface, 2015, 12, 20141268.	1.5	5
86	Photoluminescence characterization of ZnO nanowires functionalization. , 2015, , .		0
87	Diagnostic and therapeutic devices based on polymeric microneedles: fabrication and preliminary results. , 2015, , .		3
88	A new strategy for label-free detection of lymphoma cancer cells. Biomedical Optics Express, 2015, 6, 1353.	1.5	13
89	The amphiphilic hydrophobin Vmh2 plays a key role in one step synthesis of hybrid proteinâ€“gold nanoparticles. Colloids and Surfaces B: Biointerfaces, 2015, 136, 214-221.	2.5	23
90	Surface bioengineering of diatomite based nanovectors for efficient intracellular uptake and drug delivery. Nanoscale, 2015, 7, 20063-20074.	2.8	81

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91	ATR FT-IR spectroscopy on Vmh2 hydrophobin self-assembled layers for Teflon membrane bio-functionalization. Applied Surface Science, 2015, 351, 673-680.	3.1	16
92	Improving the gas sensing performance of chemiresistors by LED irradiation. , 2015, , .		0
93	Oligopeptideâ€“heavy metal interaction monitoring by hybrid gold nanoparticle based assay. Analyst, The, 2015, 140, 149-155.	1.7	31
94	Porous Silicon-Based Optical Chemical Sensors. , 2015, , 69-94.		1
95	Optical Properties of Diatom Nanostructured Biosilica in Arachnoidiscus sp: Micro-Optics from Mother Nature. PLoS ONE, 2014, 9, e103750.	1.1	82
96	In-Vivo Real-Time Control of Protein Expression from Endogenous and Synthetic Gene Networks. PLoS Computational Biology, 2014, 10, e1003625.	1.5	114
97	Diffuse Reflectance Infrared Fourier Transform Spectroscopy for the Determination of Asbestos Species in Bulk Building Materials. Materials, 2014, 7, 457-470.	1.3	31
98	Silicon based optical biochips for biomedical applications. , 2014, , .		2
99	Biologically enabled sub-diffractive focusing. Optics Express, 2014, 22, 27214.	1.7	36
100	Photoluminescence of Graphene Oxide Infiltrated into Mesoporous Silicon. Journal of Physical Chemistry C, 2014, 118, 27301-27307.	1.5	24
101	Hydrophobin-coated plates as matrix-assisted laser desorption/ionization sample support for peptide/protein analysis. Analytical Biochemistry, 2014, 449, 9-16.	1.1	23
102	Shedding light on diatom photonics by means of digital holography. Journal of Biophotonics, 2014, 7, 341-350.	1.1	46
103	Porous Silicon for Microdevices and Microsystems. , 2014, , 1-8.		0
104	Aminosilane-modified mesoporous oxidized silicon for in situ oligonucleotides synthesis and detection. , 2014, , .		0
105	Nanostructured photonic biosensor for heavy metal detection design and development of porous silicon optical biosensors. , 2014, , .		0
106	Three-dimensional imaging using digital holography and scanning electron microscopy. , 2014, , .		0
107	PDIF-CN2 modified porous silicon optical and electrical transducers for biochemical sensing electrical and optical sensing by porous silicon devices. , 2014, , .		0
108	Synthesis of mixed-sequence oligonucleotides on mesoporous silicon: chemical strategies and material stability. Nanoscale Research Letters, 2014, 9, 317.	3.1	9

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109	Diatomite silica nanoparticles for drug delivery. Nanoscale Research Letters, 2014, 9, 329.	3.1	80
110	Diatomite biosilica nanocarriers for siRNA transport inside cancer cells. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 3393-3403.	1.1	88
111	Hydrophobin-glucose interaction monitored by porous silicon optical multi-layers hybrid interfaces for sugar-proteins interaction monitoring. , 2014, , .		0
112	Sub-diffractive light confinement: A biological-based approach. , 2014, , .		0
113	Bioconjugation of Heavy Metal-binding Proteins on Surface: An Optical and Gravimetric Characterization. Procedia Engineering, 2014, 87, 292-295.	1.2	2
114	Combining focusing properties of a single diatom valve with optical eigenmodes in ultra-shrinking of light. , 2014, , .		0
115	Porous Silicon for Microdevices and Microsystems. , 2014, , 797-804.		1
116	Microfluidics assisted biosensors for label-free optical monitoring of molecular interactions. Sensors and Actuators B: Chemical, 2013, 179, 157-162.	4.0	16
117	Evaluation of thin metal film thickness from light attenuation and multi-reflection effects on micro-Raman response. Thin Solid Films, 2013, 536, 142-146.	0.8	1
118	Aminosilane functionalizations of mesoporous oxidized silicon for oligonucleotide synthesis and detection. Journal of the Royal Society Interface, 2013, 10, 20130160.	1.5	60
119	Hybrid interfaces for a new class of optical biosensors. Proceedings of SPIE, 2013, , .	0.8	0
120	Optics with diatoms: towards efficient, bioinspired photonic devices at the micro-scale. , 2013, , .		10
121	Hybrid bio/non-bio interfaces for protein-glucose interaction monitoring. Journal of Applied Physics, 2013, 114, 134904.	1.1	12
122	Photomasks Fabrication Based on Optical Reduction for Microfluidic Applications. Micromachines, 2013, 4, 206-214.	1.4	9
123	Hydrophobin Vmh2â€“glucose complexes self-assemble in nanometric biofilms. Journal of the Royal Society Interface, 2012, 9, 2450-2456.	1.5	16
124	Silicon-Based Technology for Ligand-Receptor Molecular Identification. Journal of Atomic, Molecular, and Optical Physics, 2012, 2012, 1-5.	0.5	3
125	Environmental Conditions Modulate the Switch among Different States of the Hydrophobin Vmh2 from Pleurotus ostreatus. Biomacromolecules, 2012, 13, 743-750.	2.6	32
126	Comparison between Two FT-IR Spectroscopy Analytical Procedures for Micrograms Determination of Asbestos Species in Bulk Materials. American Journal of Analytical Chemistry, 2012, 03, 1-5.	0.3	7

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127	Mapping electric fields generated by microelectrodes using optically trapped charged microspheres. Lab on A Chip, 2011, 11, 4113.	3.1	5
128	A Mechanochemical Approach to Porous Silicon Nanoparticles Fabrication. Materials, 2011, 4, 1023-1033.	1.3	80
129	A microfluidics assisted porous silicon array for optical label-free biochemical sensing. Biomicrofluidics, 2011, 5, 34120-3412010.	1.2	40
130	Optical trapping of porous silicon nanoparticles. Nanotechnology, 2011, 22, 505704.	1.3	23
131	Treatment and recycling of asbestos-cement containing waste. Journal of Hazardous Materials, 2011, 195, 391-397.	6.5	79
132	A natural source of porous biosilica for nanotech applications: the diatoms microalgae. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1820-1825.	0.8	23
133	Modelling biochemical interactions in a microfluidic assisted porous silicon microarray for optical sensing. , 2011, , .		1
134	A porous silicon based microfluidic array for the optical monitoring of biomolecular interactions. , 2011, , .		0
135	Porous silicon and diatoms micro-shells: an example of inverse biomimetic. , 2011, , .		1
136	Numerical Optimization of a Microfluidic Assisted Microarray for the Detection of Biochemical Interactions. Sensors, 2011, 11, 9658-9666.	2.1	7
137	A nanostructured hybrid material based on polymer infiltrated porous silicon layer. Applied Physics A: Materials Science and Processing, 2010, 98, 525-530.	1.1	8
138	New perspectives and applications of silicon nanophotonics. Proceedings of SPIE, 2010, , .	0.8	0
139	Fabrication and characterization of a porous silicon based microarray for label-free optical monitoring of biomolecular interactions. Journal of Applied Physics, 2010, 107, .	1.1	49
140	Light confinement in marine centric diatoms: main characteristics and wavelength dependence. , 2010, , .		0
141	The Pleurotus ostreatus hydrophobin Vmh2 and its interaction with glucans. Glycobiology, 2010, 20, 594-602.	1.3	39
142	A porous silicon based microarray for label-free optical detection of DNA hybridization. Proceedings of SPIE, 2010, , .	0.8	0
143	Direct Synthesis of Oligonucleotides on Nanostructured Silica Multilayers. Journal of Physical Chemistry C, 2010, 114, 2617-2621.	1.5	14
144	Multi-wavelength study of light transmitted through a single marine centric diatom. Optics Express, 2010, 18, 12203.	1.7	76

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145	Hybrid polymer-porous silicon photonic crystals for optical sensing. Journal of Applied Physics, 2009, 106, .	1.1	44
146	Protein conformational changes revealed by optical spectroscopic reflectometry in porous silicon multilayers. Journal of Physics Condensed Matter, 2009, 21, 035115.	0.7	3
147	Tunable NIR filter based on a free-standing porous silicon film containing nematic liquid crystal. Journal of Optics, 2009, 11, 105106.	1.5	9
148	Intrinsic photoluminescence of diatom shells in sensing applications. , 2009, , .		1
149	Micro and nanophotonics in silicon: new perspectives and applications. , 2009, , .		0
150	Functional morphology of micro- and nanostructures in two distinct diatom frustules. Superlattices and Microstructures, 2009, 46, 64-68.	1.4	31
151	Nano-biosilica from marine diatoms: A brand new material for photonic applications. Superlattices and Microstructures, 2009, 46, 84-89.	1.4	80
152	A porous silicon-based Bragg grating waveguide sensor for chemical monitoring. Sensors and Actuators B: Chemical, 2009, 139, 39-43.	4.0	53
153	Marine diatoms as optical biosensors. Biosensors and Bioelectronics, 2009, 24, 1580-1584.	5.3	106
154	Bioactive modification of silicon surface using self-assembled hydrophobins from Pleurotus ostreatus. European Physical Journal E, 2009, 30, 181-5.	0.7	28
155	Biological passivation of porous silicon by a self-assembled nanometric biofilm of proteins. Journal of Nanophotonics, 2009, 3, 031985.	0.4	7
156	Label-free biosensing by means of optical micro-ring resonator. Proceedings of SPIE, 2009, , .	0.8	4
157	Marine diatoms as optical chemical sensors: A time-resolved study. Sensors and Actuators B: Chemical, 2008, 130, 396-399.	4.0	36
158	Enzymes and proteins from extremophiles as hyperstable probes in nanotechnology: the use of D-trehalose/D-maltose-binding protein from the hyperthermophilic archaeon Thermococcus litoralis for sugars monitoring. Extremophiles, 2008, 12, 69-73.	0.9	12
159	The Gasâ€Detection Properties of Lightâ€Emitting Diatoms. Advanced Functional Materials, 2008, 18, 1257-1264.	7.8	87
160	Proteinâ€Modified Porous Silicon Nanostructures. Advanced Materials, 2008, 20, 1529-1533.	11.1	40
161	Interfacing the nanostructured biosilica microshells of the marine diatom Coscinodiscus wailesii with biological matter. Acta Biomaterialia, 2008, 4, 126-130.	4.1	73
162	A porous silicon Bragg grating waveguide by direct laser writing. Journal of Physics Condensed Matter, 2008, 20, 365203.	0.7	6

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163	Laser direct-writing of Bragg gratings waveguides on porous silicon. , 2008, , .		4
164	TG, FT-IR and NMR characterization of n-C16H34 contaminated alumina and silica after mechanochemical treatment. Chemosphere, 2008, 70, 1068-1076.	4.2	8
165	Oligonucleotides direct synthesis on porous silicon chip. Nucleic Acids Symposium Series, 2008, 52, 721-722.	0.3	1
166	Free-standing porous silicon film with a tunable microcavity containing nematic liquid crystal. , 2008, , .		0
167	Langmuirâ^'Blodgett Film of Hydrophobin Protein from Pleurotus ostreatus at the Airâ^'Water Interface. Langmuir, 2008, 24, 12953-12957.	1.6	26
168	A parametric study of laser induced ablationâ€"oxidation on porous silicon surfaces. Journal of Physics Condensed Matter, 2008, 20, 265009.	0.7	12
169	Light micro-lensing effect in biosilica shells of diatoms microalgae. , 2008, , .		0
170	Active NIR filter with a free-standing porous silicon microcavity containing liquid crystal. , 2008, , .		0
171	Optical sensing of chemicals by a porous silicon Bragg grating waveguide. Proceedings of SPIE, 2008, , .	0.8	3
172	Hybrid optical biosensor based on polymer infiltrated porous silicon device. , 2008, , .		1
173	Integrated optical biosensors and biochips based on porous silicon technology. , 2008, , .		0
174	Optical detection of PNA/DNA hybridization in resonant porous silicon-based devices. , 2008, , .		0
175	Porous Silicon Based Resonant Mirrors for Biochemical Sensing. Sensors, 2008, 8, 6549-6556.	2.1	49
176	Aperiodic photonic bandgap devices based on nanostructured porous silicon. , 2007, , .		0
177	An optical microsystem based on vertical silicon-air Bragg mirror for liquid substances monitoring. , 2007, , .		0
178	Design and realization of highly stable porous silicon optical biosensor based on proteins from extremophiles. , 2007, , .		1
179	Biochips at work: porous silicon microbiosensor for proteomic diagnostic. Journal of Physics Condensed Matter, 2007, 19, 395007.	0.7	7
180	Optical microsystems based on a nanomaterial technology. Journal of Physics Condensed Matter, 2007, 19, 395008.	0.7	7

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181	Confocal imaging of protein distributions in porous silicon optical structures. Journal of Physics Condensed Matter, 2007, 19, 395009.	0.7	11
182	Highly sensitive optochemical gas detection by luminescent marine diatoms. Applied Physics Letters, 2007, 91, 051921.	1.5	56
183	Playing with light in diatoms: small water organisms with a natural photonic crystal structure. , 2007, 6593, 305.		7
184	Optical characterization of liquid crystals by combined ellipsometry and half-leaky-guided-mode spectroscopy in the visible-near infrared range. Journal of Applied Physics, 2007, 101, 073105.	1.1	29
185	Lensless light focusing with the centric marine diatom Coscinodiscus walesii. Optics Express, 2007, 15, 18082.	1.7	113
186	Quantitative analysis of capillary condensation in fractal-like porous silicon nanostructures. Journal of Applied Physics, 2007, 101, 024309.	1.1	25
187	Ellipsometric Study of Liquid Crystal Infiltrated Porous Silicon. Molecular Crystals and Liquid Crystals, 2007, 465, 359-370.	0.4	17
188	Periodic versus aperiodic: Enhancing the sensitivity of porous silicon based optical sensors. Applied Physics Letters, 2007, 90, 191112.	1.5	62
189	DNA Optical Detection Based on Porous Silicon Technology: from Biosensors to Biochips. Sensors, 2007, 7, 214-221.	2.1	109
190	Electrical Reorientation of Liquid Crystal within Silicon Macropore for Photonic Devices. , 2007, , .		0
191	Self-Assembled Biofilm of Hydrophobins Protects the Silicon Surface in the KOH Wet Etch Process. Langmuir, 2007, 23, 7920-7922.	1.6	43
192	Porous silicon-based optical biosensors and biochips. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 38, 188-192.	1.3	55
193	Quantitative measurements of hydro-alcoholic binary mixtures by porous silicon optical microsensors. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 1941-1945.	0.8	5
194	An integrated hybrid optical device for sensing applications. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 1946-1950.	0.8	4
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