

Ilaria Rea

List of Publications by Year in descending order

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179
papers

3,645
citations

116194

36
h-index

206121

51
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184
all docs

184
docs citations

184
times ranked

3908
citing authors

#	ARTICLE	IF	CITATIONS
1	H ³ (Hydrogel-Based, High-Sensitivity, Hybrid) Plasmonic Transducers for Biomolecular Interactions Monitoring. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	8
2	Plasmonic Nanosensors: Design, Fabrication, and Applications in Biomedicine. <i>Chemosensors</i> , 2022, 10, 150.	1.8	23
3	Diatomite-based nanoparticles: Fabrication strategies for medical applications. , 2022, , 427-446.		1
4	F-doped ZnO nano- and meso-crystals with enhanced photocatalytic activity in diclofenac degradation. <i>Science of the Total Environment</i> , 2021, 762, 143066.	3.9	37
5	Hybrid Organic/Inorganic Nanomaterials for Biochemical Sensing. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 93-99.	0.3	4
6	Bioconjugation of Peptides to Hybrid Gold Nanoparticles. <i>Methods in Molecular Biology</i> , 2021, 2355, 105-115.	0.4	1
7	Bioconjugation of a PNA Probe to Zinc Oxide Nanowires for Label-Free Sensing. <i>Nanomaterials</i> , 2021, 11, 523.	1.9	9
8	Porous Silicon Optical Devices: Recent Advances in Biosensing Applications. <i>Sensors</i> , 2021, 21, 1336.	2.1	55
9	One-Shot Fabrication of Polymeric Hollow Microneedles by Standard Photolithography. <i>Polymers</i> , 2021, 13, 520.	2.0	34
10	Recent Advances in the Fabrication and Functionalization of Flexible Optical Biosensors: Toward Smart Life-Sciences Applications. <i>Biosensors</i> , 2021, 11, 107.	2.3	31
11	SERS Quantification of Galunisertib Delivery in Colorectal Cancer Cells by Plasmonic-Assisted Diatomite Nanoparticles. <i>Small</i> , 2021, 17, e2101711.	5.2	32
12	A PEGDA hydrogel nanocomposite to improve gold nanoparticles stability for novel plasmonic sensing platforms. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	27
13	SERS Sensing of Bacterial Endotoxin on Gold Nanoparticles. <i>Frontiers in Immunology</i> , 2021, 12, 758410.	2.2	14
14	Design of Gelatin-Capped Plasmonic-Diatomite Nanoparticles with Enhanced Galunisertib Loading Capacity for Drug Delivery Applications. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10755.	1.8	16
15	Underwater Light Manipulation by the Benthic Diatom <i>Ctenophora pulchella</i> : From PAR Efficient Collection to UVR Screening. <i>Nanomaterials</i> , 2021, 11, 2855.	1.9	6
16	Intracellular SERS monitoring of drug release from plasmonic-assisted biosilica nanoparticles. <i>EPJ Web of Conferences</i> , 2021, 255, 13002.	0.1	0
17	Protein-modified porous silicon optical devices for biosensing. , 2021, , 113-148.		1
18	Plasmonic Hydrogel Nanocomposites with Combined Optical and Mechanical Properties for Biochemical Sensing. , 2021, 5, .		0

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19	Nanostructured Biosilica of Diatoms: From Water World to Biomedical Applications. Applied Sciences (Switzerland), 2020, 10, 6811.	1.3	39
20	PNA-Based Graphene Oxide/Porous Silicon Hybrid Biosensor: Towards a Label-Free Optical Assay for Brugada Syndrome. Nanomaterials, 2020, 10, 2233.	1.9	10
21	Time-gated luminescence imaging of positively charged poly-L-lysine-coated highly microporous silicon nanoparticles in living Hydra polyp. Journal of Biophotonics, 2020, 13, e202000272.	1.1	10
22	π-π stacked DNA G-wire nanostructures formed by a short G-rich oligonucleotide containing a 3'→5' inversion of polarity site. Organic Chemistry Frontiers, 2020, 7, 2187-2195.	2.3	8
23	Photocatalytic hydrogen evolution by co-catalyst-free TiO ₂ /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	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
26	Design and Synthesis of Hybrid PEGylated Metal Monopicolinate Cyclam Ligands for Biomedical Applications. ACS Omega, 2019, 4, 2500-2509.	1.6	7
27	Porous Silicon-Based Aptasensors: The Next Generation of Label-Free Devices for Health Monitoring. Molecules, 2019, 24, 2216.	1.7	25
28	Polymeric Microneedle Arrays: Versatile Tools for an Innovative Approach to Drug Administration. Advanced Therapeutics, 2019, 2, 1900036.	1.6	22
29	Microneedles-based electrochemical sensors: New tools for advanced biosensing. Current Opinion in Electrochemistry, 2019, 17, 121-127.	2.5	44
30	Unraveling the Charge State of Oxygen Vacancies in ZrO ₂ on the Basis of Synergistic Computational and Experimental Evidence. Journal of Physical Chemistry C, 2019, 123, 11581-11590.	1.5	31
31	In Vivo Toxicity Assessment of Hybrid Diatomite Nanovectors Using <i>Hydra vulgaris</i> as a Model System. Advanced Biology, 2019, 3, e1800247.	3.0	15
32	Photoemissive properties and stability of undecylenic acid-modified porous silicon nanoparticles in physiological medium. Applied Physics Letters, 2019, 114, .	1.5	6
33	Functionalized Polymeric Materials with Bio-Derived Antimicrobial Peptides for Active-Packaging. International Journal of Molecular Sciences, 2019, 20, 601.	1.8	32
34	Recent Advances on Diatom-Based Biosensors. Sensors, 2019, 19, 5208.	2.1	18
35	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
36	Colorimetric Immunosensor by Aggregation of Photochemically Functionalized Gold Nanoparticles. ACS Omega, 2018, 3, 3805-3812.	1.6	67

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37	Gold decorated porous biosilica nanodevices for advanced medicine. <i>Nanotechnology</i> , 2018, 29, 235601.	1.3	29
38	Quantification and Reduction of the Residual Chemical Reactivity of Passivated Biodegradable Porous Silicon for Drug Delivery Applications. <i>Silicon</i> , 2018, 10, 349-359.	1.8	17
39	Internalization kinetics and cytoplasmic localization of functionalized diatomite nanoparticles in cancer cells by Raman imaging. <i>Journal of Biophotonics</i> , 2018, 11, e201700207.	1.1	41
40	Toward Multi-Parametric Porous Silicon Transducers Based on Covalent Grafting of Graphene Oxide for Biosensing Applications. <i>Frontiers in Chemistry</i> , 2018, 6, 583.	1.8	8
41	Diatoms Green Nanotechnology for Biosilica-Based Drug Delivery Systems. <i>Pharmaceutics</i> , 2018, 10, 242.	2.0	66
42	UV-shielding and wavelength conversion by centric diatom nanopatterned frustules. <i>Scientific Reports</i> , 2018, 8, 16285.	1.6	37
43	Covalent grafting of graphene oxide on functionalized macroporous silicon. <i>Open Material Sciences</i> , 2018, 4, 15-22.	0.8	5
44	Small Synthetic Peptides Bioconjugated to Hybrid Gold Nanoparticles Destroy Potentially Deadly Bacteria at Submicromolar Concentrations. <i>Bioconjugate Chemistry</i> , 2018, 29, 3877-3885.	1.8	31
45	Hybrid Hydrophobin/Gold Nanoparticles: Synthesis and Characterization of New Synthetic Probes for Biological Applications. <i>Lecture Notes in Electrical Engineering</i> , 2018, , 169-176.	0.3	1
46	Porous Silicon for Microdevices and Microsystems. , 2018, , 1179-1187.		0
47	Diatomite nanovectors uptake in cancer cells: a Raman imaging study. , 2018, , .		0
48	Electronic properties of TiO ₂ -based materials characterized by high Ti ³⁺ self-doping and low recombination rate of electron-hole pairs. <i>RSC Advances</i> , 2017, 7, 2373-2381.	1.7	66
49	Chemical modification of TiO ₂ nanotube arrays for label-free optical biosensing applications. <i>Applied Surface Science</i> , 2017, 419, 235-240.	3.1	38
50	Synthetic vs Natural: Diatoms Bioderived Porous Materials for the Next Generation of Healthcare Nanodevices. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601125.	3.9	47
51	Reversible sensing of heavy metal ions using lysine modified oligopeptides on porous silicon and gold. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 142-150.	4.0	16
52	Self-Assembly of Rich Oligonucleotides Incorporating a 3' Inversion of Polarity Site: A New Route Towards Wire DNA Nanostructures. <i>ChemistryOpen</i> , 2017, 6, 599-605.	0.9	24
53	Morphological, Structural, and Charge Transfer Properties of F-Doped ZnO: A Spectroscopic Investigation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16012-16020.	1.5	51
54	Peptide Functionalization of Silicon for Detection and Classification of Prostatic Cells. <i>Journal of Sensors</i> , 2017, 2017, 1-9.	0.6	4

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55	Optical modelling of hybrid nanoparticles for theranostic applications. , 2017, , .		1
56	Functionalization of macroporous silicon for optical detection of bacteria. , 2017, , .		0
57	Chemical and Structural Characterization of Several Mid-Term Explanted Breast Prostheses. Materials, 2016, 9, 678.	1.3	5
58	Nanogravimetric and Optical Characterizations of Thrombin Interaction with a Self-Assembled Thiolated Aptamer. Journal of Sensors, 2016, 2016, 1-8.	0.6	8
59	Diatom Valve Three-Dimensional Representation: A New Imaging Method Based on Combined Microscopies. International Journal of Molecular Sciences, 2016, 17, 1645.	1.8	7
60	Photoluminescence enhancement of graphene oxide emission by infiltration in an aperiodic porous silicon multilayer. Optics Express, 2016, 24, 24413.	1.7	16
61	Nanoparticle-based strategy for personalized B-cell lymphoma therapy. International Journal of Nanomedicine, 2016, Volume 11, 6089-6101.	3.3	35
62	Optical Monitoring of Drug Release in Hybrid Patch Based on Polymer Microneedles and Porous Silicon Membrane. , 2016, , .		0
63	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
64	Electroless Gold-Modified Diatoms as Surface-Enhanced Raman Scattering Supports. Nanoscale Research Letters, 2016, 11, 315.	3.1	31
65	Bioengineered Silicon Diatoms: Adding Photonic Features to a Nanostructured Semiconductive Material for Biomolecular Sensing. Nanoscale Research Letters, 2016, 11, 405.	3.1	32
66	Optically monitored drug delivery patch based on porous silicon and polymer microneedles. Biomedical Optics Express, 2016, 7, 1645.	1.5	31
67	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
68	Porous Silicon for Microdevices and Microsystems. , 2016, , 1-9.		0
69	Graphene oxide-based mesoporous silicon as tunable platform for optical applications. , 2015, , .		0
70	Optically Controlled Drug Delivery System based on Porous Silicon and Microneedles patch. , 2015, , .		0
71	Photoluminescence of graphene oxide integrated with silicon substrates. , 2015, , .		0
72	Natural and synthetic nanostructured materials for biomedical applications. , 2015, , .		1

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73	Diatomite nanoparticles as potential drug delivery systems. , 2015, , .		1
74	Versatile synthesis of ZnO nanowires for quantitative optical sensing of molecular biorecognition. Sensors and Actuators B: Chemical, 2015, 220, 705-711.	4.0	29
75	Hybrid microneedles devices for diagnostic and therapeutic applications: fabrication and preliminary results. Proceedings of SPIE, 2015, , .	0.8	0
76	A silicon-based peptide biosensor for label-free detection of cancer cells. , 2015, , .		2
77	Hybrid organicâ€“inorganic porous semiconductor transducer for multi-parameters sensing. Journal of the Royal Society Interface, 2015, 12, 20141268.	1.5	5
78	Photoluminescence characterization of ZnO nanowires functionalization. , 2015, , .		0
79	Diagnostic and therapeutic devices based on polymeric microneedles: fabrication and preliminary results. , 2015, , .		3
80	A new strategy for label-free detection of lymphoma cancer cells. Biomedical Optics Express, 2015, 6, 1353.	1.5	13
81	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
82	Surface bioengineering of diatomite based nanovectors for efficient intracellular uptake and drug delivery. Nanoscale, 2015, 7, 20063-20074.	2.8	81
83	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
84	Porous Silicon-Based Optical Chemical Sensors. , 2015, , 69-94.		1
85	Optical Properties of Diatom Nanostructured Biosilica in Arachnoidiscus sp: Micro-Optics from Mother Nature. PLoS ONE, 2014, 9, e103750.	1.1	82
86	Silicon based optical biochips for biomedical applications. , 2014, , .		2
87	Photoluminescence of Graphene Oxide Infiltrated into Mesoporous Silicon. Journal of Physical Chemistry C, 2014, 118, 27301-27307.	1.5	24
88	Hydrophobin-coated plates as matrix-assisted laser desorption/ionization sample support for peptide/protein analysis. Analytical Biochemistry, 2014, 449, 9-16.	1.1	23
89	Porous Silicon for Microdevices and Microsystems. , 2014, , 1-8.		0
90	Aminosilane-modified mesoporous oxidized silicon for in situ oligonucleotides synthesis and detection. , 2014, , .		0

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91	Nanostructured photonic biosensor for heavy metal detection design and development of porous silicon optical biosensors. , 2014, , .		0
92	Three-dimensional imaging using digital holography and scanning electron microscopy. , 2014, , .		0
93	PDIF-CN2 modified porous silicon optical and electrical transducers for biochemical sensing electrical and optical sensing by porous silicon devices. , 2014, , .		0
94	Synthesis of mixed-sequence oligonucleotides on mesoporous silicon: chemical strategies and material stability. Nanoscale Research Letters, 2014, 9, 317.	3.1	9
95	Diatomite silica nanoparticles for drug delivery. Nanoscale Research Letters, 2014, 9, 329.	3.1	80
96	Diatomite biosilica nanocarriers for siRNA transport inside cancer cells. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 3393-3403.	1.1	88
97	Hydrophobin-glucose interaction monitored by porous silicon optical multi-layers hybrid interfaces for sugar-proteins interaction monitoring. , 2014, , .		0
98	Protein-modified porous silicon films for biomedical applications. , 2014, , 104-128.		0
99	Bioconjugation of Heavy Metal-binding Proteins on Surface: An Optical and Gravimetric Characterization. Procedia Engineering, 2014, 87, 292-295.	1.2	2
100	Porous Silicon for Microdevices and Microsystems. , 2014, , 797-804.		1
101	Microfluidics assisted biosensors for label-free optical monitoring of molecular interactions. Sensors and Actuators B: Chemical, 2013, 179, 157-162.	4.0	16
102	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
103	Aminosilane functionalizations of mesoporous oxidized silicon for oligonucleotide synthesis and detection. Journal of the Royal Society Interface, 2013, 10, 20130160.	1.5	60
104	Hybrid interfaces for a new class of optical biosensors. Proceedings of SPIE, 2013, , .	0.8	0
105	Optics with diatoms: towards efficient, bioinspired photonic devices at the micro-scale. , 2013, , .		10
106	Hybrid bio/non-bio interfaces for protein-glucose interaction monitoring. Journal of Applied Physics, 2013, 114, 134904.	1.1	12
107	Hydrophobin Vmh2â€“glucose complexes self-assemble in nanometric biofilms. Journal of the Royal Society Interface, 2012, 9, 2450-2456.	1.5	16
108	Silicon-Based Technology for Ligand-Receptor Molecular Identification. Journal of Atomic, Molecular, and Optical Physics, 2012, 2012, 1-5.	0.5	3

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109	Environmental Conditions Modulate the Switch among Different States of the Hydrophobin Vmh2 from <i>Pleurotus ostreatus</i> . <i>Biomacromolecules</i> , 2012, 13, 743-750.	2.6	32
110	A Mechanochemical Approach to Porous Silicon Nanoparticles Fabrication. <i>Materials</i> , 2011, 4, 1023-1033.	1.3	80
111	A microfluidics assisted porous silicon array for optical label-free biochemical sensing. <i>Biomicrofluidics</i> , 2011, 5, 34120-3412010.	1.2	40
112	A natural source of porous biosilica for nanotech applications: the diatoms microalgae. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 1820-1825.	0.8	23
113	Modelling biochemical interactions in a microfluidic assisted porous silicon microarray for optical sensing. , 2011, , .		1
114	A porous silicon based microfluidic array for the optical monitoring of biomolecular interactions. , 2011, , .		0
115	Porous silicon and diatoms micro-shells: an example of inverse biomimetic. , 2011, , .		1
116	Numerical Optimization of a Microfluidic Assisted Microarray for the Detection of Biochemical Interactions. <i>Sensors</i> , 2011, 11, 9658-9666.	2.1	7
117	A nanostructured hybrid material based on polymer infiltrated porous silicon layer. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 98, 525-530.	1.1	8
118	New perspectives and applications of silicon nanophotonics. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
119	Fabrication and characterization of a porous silicon based microarray for label-free optical monitoring of biomolecular interactions. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	49
120	Light confinement in marine centric diatoms: main characteristics and wavelength dependence. , 2010, , .		0
121	The <i>Pleurotus ostreatus</i> hydrophobin Vmh2 and its interaction with glucans. <i>Glycobiology</i> , 2010, 20, 594-602.	1.3	39
122	A porous silicon based microarray for label-free optical detection of DNA hybridization. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
123	Direct Synthesis of Oligonucleotides on Nanostructured Silica Multilayers. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2617-2621.	1.5	14
124	Multi-wavelength study of light transmitted through a single marine centric diatom. <i>Optics Express</i> , 2010, 18, 12203.	1.7	76
125	Nematic Liquid Crystal Confined in Electrochemically Etched Porous Silicon: Optical Characterization and Applications in Photonics. , 2009, , .		0
126	Hybrid polymer-porous silicon photonic crystals for optical sensing. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	44

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127	Protein conformational changes revealed by optical spectroscopic reflectometry in porous silicon multilayers. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 035115.	0.7	3
128	Intrinsic photoluminescence of diatom shells in sensing applications. , 2009, , .		1
129	Micro and nanophotonics in silicon: new perspectives and applications. , 2009, , .		0
130	Dewatering bore pumps “reducing costs and emissions by maximising pumping efficiency over time. <i>Mining Technology: Transactions of the Institute of Materials, Minerals and Mining Section A</i> , 2009, 118, 220-224.	0.8	2
131	Nano-biosilica from marine diatoms: A brand new material for photonic applications. <i>Superlattices and Microstructures</i> , 2009, 46, 84-89.	1.4	80
132	A porous silicon-based Bragg grating waveguide sensor for chemical monitoring. <i>Sensors and Actuators B: Chemical</i> , 2009, 139, 39-43.	4.0	53
133	Bioactive modification of silicon surface using self-assembled hydrophobins from <i>Pleurotus ostreatus</i> . <i>European Physical Journal E</i> , 2009, 30, 181-5.	0.7	28
134	Biological passivation of porous silicon by a self-assembled nanometric biofilm of proteins. <i>Journal of Nanophotonics</i> , 2009, 3, 031985.	0.4	7
135	Label-free biosensing by means of optical micro-ring resonator. <i>Proceedings of SPIE</i> , 2009, , .	0.8	4
136	Enzymes and proteins from extremophiles as hyperstable probes in nanotechnology: the use of D-trehalose/D-maltose-binding protein from the hyperthermophilic archaeon <i>Thermococcus litoralis</i> for sugars monitoring. <i>Extremophiles</i> , 2008, 12, 69-73.	0.9	12
137	Protein-Modified Porous Silicon Nanostructures. <i>Advanced Materials</i> , 2008, 20, 1529-1533.	11.1	40
138	A porous silicon Bragg grating waveguide by direct laser writing. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 365203.	0.7	6
139	Laser direct-writing of Bragg gratings waveguides on porous silicon. , 2008, , .		4
140	Oligonucleotides direct synthesis on porous silicon chip. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 721-722.	0.3	1
141	Langmuir-Blodgett Film of Hydrophobin Protein from <i>Pleurotus ostreatus</i> at the Air-Water Interface. <i>Langmuir</i> , 2008, 24, 12953-12957.	1.6	26
142	A parametric study of laser induced ablation-oxidation on porous silicon surfaces. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 265009.	0.7	12
143	Light micro-lensing effect in biosilica shells of diatoms microalgae. , 2008, , .		0
144	Optical sensing of chemicals by a porous silicon Bragg grating waveguide. <i>Proceedings of SPIE</i> , 2008, , .	0.8	3

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145	Integrated optical biosensors and biochips based on porous silicon technology. , 2008, , .		0
146	Optical detection of PNA/DNA hybridization in resonant porous silicon-based devices. , 2008, , .		0
147	Porous Silicon Based Resonant Mirrors for Biochemical Sensing. Sensors, 2008, 8, 6549-6556.	2.1	49
148	Aperiodic photonic bandgap devices based on nanostructured porous silicon. , 2007, , .		0
149	An optical microsystem based on vertical silicon-air Bragg mirror for liquid substances monitoring. , 2007, , .		0
150	Design and realization of highly stable porous silicon optical biosensor based on proteins from extremophiles. , 2007, , .		1
151	Optical microsystems based on a nanomaterial technology. Journal of Physics Condensed Matter, 2007, 19, 395008.	0.7	7
152	Playing with light in diatoms: small water organisms with a natural photonic crystal structure. , 2007, 6593, 305.		7
153	Thue-Morse quasi-crystals made of porous silicon. , 2007, , FMI4.		0
154	Lensless light focusing with the centric marine diatom Coscinodiscus walesii. Optics Express, 2007, 15, 18082.	1.7	113
155	Ellipsometric Study of Liquid Crystal Infiltrated Porous Silicon. Molecular Crystals and Liquid Crystals, 2007, 465, 359-370.	0.4	17
156	Periodic versus aperiodic: Enhancing the sensitivity of porous silicon based optical sensors. Applied Physics Letters, 2007, 90, 191112.	1.5	62
157	DNA Optical Detection Based on Porous Silicon Technology: from Biosensors to Biochips. Sensors, 2007, 7, 214-221.	2.1	109
158	Self-Assembled Biofilm of Hydrophobins Protects the Silicon Surface in the KOH Wet Etch Process. Langmuir, 2007, 23, 7920-7922.	1.6	43
159	Porous silicon-based optical biosensors and biochips. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 38, 188-192.	1.3	55
160	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
161	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
162	Optical properties of porous silicon Thue-Morse structures. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 1966-1970.	0.8	3

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163	An integrated pressure-driven microsystem based on porous silicon for optical monitoring of gaseous and liquid substances. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 1459-1463.	0.8	17
164	Porous silicon-based optical biochips. <i>Journal of Optics</i> , 2006, 8, S540-S544.	1.5	49
165	Photonic band gaps analysis of Thue-Morse multilayers made of porous silicon. <i>Optics Express</i> , 2006, 14, 6264.	1.7	125
166	Silicon infrared diffuser for wireless communication. <i>Applied Optics</i> , 2006, 45, 6746.	2.1	2
167	A Microsystem Based on Porous Silicon-Glass Anodic Bonding for Gas and Liquid Optical Sensing. <i>Sensors</i> , 2006, 6, 680-687.	2.1	35
168	Resonant cavity enhanced optical microsensor for molecular interactions based on porous silicon. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 886-891.	0.8	18
169	Nanostructured silicon-based biosensors for the selective identification of analytes of social interest. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S2019-S2028.	0.7	16
170	A very sensitive porous silicon based humidity sensor. <i>Sensors and Actuators B: Chemical</i> , 2005, 111-112, 135-139.	4.0	57
171	Nanostructure reactivity: Confinement energy and charge transfer in porous silicon. <i>Sensors and Actuators B: Chemical</i> , 2005, 111-112, 117-124.	4.0	11
172	Optical characterisation of biological nano-porous silica structures. , 2005, , .		1
173	Improvement of stability and recovery time in porous-silicon-based NO ₂ sensor. <i>Sensors and Actuators B: Chemical</i> , 2004, 102, 195-197.	4.0	45
174	Organic-inorganic Interfaces for a New Generation of Hybrid Biosensors. , 0, , .		2
175	Optical characterization of aminosilane-modified silicon dioxide surface for biosensing. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 8, .	0.9	54
176	Bioengineered Surfaces for Real-Time Label-Free Detection of Cancer Cells. , 0, , .		0
177	Theranostic Microneedle Devices: Innovative Biosensing and Transdermal Drugs Administration. , 0, , .		4
178	CHAPTER 9. Diatoms: A Natural Source of Nanostructured Silica for Drug Delivery. <i>RSC Nanoscience and Nanotechnology</i> , 0, , 201-218.	0.2	2
179	CHAPTER 5. Micro- and Nano-optical Devices from Diatom Nanostructures: Light Control by Mother Nature. <i>RSC Nanoscience and Nanotechnology</i> , 0, , 111-125.	0.2	1