

# Luca Boarino

## List of Publications by Citations

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190  
papers

2,760  
citations

27  
h-index

41  
g-index

212  
ext. papers

3,132  
ext. citations

4.9  
avg, IF

4.86  
L-index

#	Paper	IF	Citations
190	Monolithic cells for solar fuels. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 7963-81	58.5	165
189	NO2 monitoring at room temperature by a porous silicon gas sensor. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2000</b> , 69-70, 210-214	3.1	114
188	Self-limited single nanowire systems combining all-in-one memristive and neuromorphic functionalities. <i>Nature Communications</i> , <b>2018</b> , 9, 5151	17.4	83
187	Polymer Distributed Bragg Reflectors for Vapor Sensing. <i>ACS Photonics</i> , <b>2015</b> , 2, 537-543	6.3	82
186	Evaluation of thermal conductivity of porous silicon layers by a photoacoustic method. <i>Applied Physics A: Materials Science and Processing</i> , <b>1997</b> , 64, 155-159	2.6	81
185	Magnetic and electronic transport percolation in epitaxial Ge <sub>1-x</sub> Mnx films. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	81
184	Resistive switching in high-density nanodevices fabricated by block copolymer self-assembly. <i>ACS Nano</i> , <b>2015</b> , 9, 2518-29	16.7	56
183	Front-side micromachined porous silicon nitrogen dioxide gas sensor. <i>Thin Solid Films</i> , <b>2001</b> , 391, 261-264.	2.2	50
182	Sensing CO2 in a chemically modified porous silicon film. <i>Physica Status Solidi A</i> , <b>2003</b> , 197, 365-369		47
181	High-quality porous-silicon buried waveguides. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 3003-3005	3.4	47
180	Ordering dynamics in symmetric PS-b-PMMA diblock copolymer thin films during rapid thermal processing. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 6655-6664	7.1	46
179	Focusing and extraction of light mediated by Bloch surface waves. <i>Scientific Reports</i> , <b>2014</b> , 4, 5428	4.9	46
178	Local environment of Boron impurities in porous silicon and their interaction with NO2 molecules. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	46
177	Reversible insulator-to-metal transition in p+-type mesoporous silicon induced by the adsorption of ammonia. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 5032-5	16.4	40
176	A Nanostructured Porous Silicon Near Insulator Becomes Either a p- or an n-Type Semiconductor upon Gas Adsorption. <i>Advanced Materials</i> , <b>2005</b> , 17, 528-531	24	39
175	Bessel-like photonic nanojets from core-shell sub-wavelength spheres. <i>Optics Letters</i> , <b>2014</b> , 39, 3989-92	3	33
174	Fluorescence diffraction assisted by Bloch surface waves on a one-dimensional photonic crystal. <i>New Journal of Physics</i> , <b>2013</b> , 15, 073002	2.9	32

173	Micromachining of silicon with a proton microbeam. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 158, 173-178	1.2	32
172	Fabrication of flexible silicon nanowires by self-assembled metal assisted chemical etching for surface enhanced Raman spectroscopy. <i>RSC Advances</i> , <b>2016</b> , 6, 93649-93659	3.7	32
171	Size scaling of mesoporous silica membranes produced by nanosphere mediated laser ablation. <i>Nanotechnology</i> , <b>2012</b> , 23, 485305	3.4	31
170	PTFE/BMMA core-shell colloidal particles as building blocks for self-assembled opals: synthesis, properties and optical response. <i>Polymer International</i> , <b>2012</b> , 61, 1294-1301	3.3	31
169	Leakage radiation interference microscopy. <i>Optics Letters</i> , <b>2013</b> , 38, 3374-6	3	31
168	Magnetoelastic Clock System for Nanomagnet Logic. <i>IEEE Nanotechnology Magazine</i> , <b>2014</b> , 13, 963-973	2.6	30
167	Brain-Inspired Structural Plasticity through Reweighting and Rewiring in Multi-Terminal Self-Organizing Memristive Nanowire Networks. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 2000096	6	27
166	Thermal and mechanical properties of PES/PTFE composites and nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 130, 3624-3633	2.9	27
165	Electrical Properties of Mesoporous Silicon: From a Surface Effect to Coulomb Blockade and More. <i>Journal of the Electrochemical Society</i> , <b>2009</b> , 156, K223	3.9	27
164	Monitoring plants health in greenhouse for space missions. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 108, 278-284	8.5	27
163	Hybrid ZnO:polystyrene nanocomposite for all-polymer photonic crystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2015</b> , 12, 158-162		26
162	In materia reservoir computing with a fully memristive architecture based on self-organizing nanowire networks. <i>Nature Materials</i> , <b>2021</b> ,	27	26
161	Depth Profiling and Melting of Nanoparticles in Secondary Ion Mass Spectrometry (SIMS). <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 16042-16052	3.8	25
160	Electrical control of deep NV centers in diamond by means of sub-superficial graphitic micro-electrodes. <i>Carbon</i> , <b>2017</b> , 113, 76-86	10.4	25
159	Photothermal detection of surface states in amorphous silicon films. <i>Applied Physics A: Solids and Surfaces</i> , <b>1990</b> , 50, 503-507		25
158	Influence of the long-range ordering of gold-coated Si nanowires on SERS. <i>Scientific Reports</i> , <b>2018</b> , 8, 11305	4.9	24
157	Electrical stimulation of non-classical photon emission from diamond color centers by means of sub-superficial graphitic electrodes. <i>Scientific Reports</i> , <b>2015</b> , 5, 15901	4.9	23
156	Evolution of lateral ordering in symmetric block copolymer thin films upon rapid thermal processing. <i>Nanotechnology</i> , <b>2014</b> , 25, 275601	3.4	22

155	Patterning of Porous Silicon by Electron-Beam Lithography. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, G311	3.9	21
154	IR detection of NO <sub>2</sub> using p+ porous silicon as a high sensitivity sensor. <i>Chemical Communications</i> , <b>2001</b> , 2196-7	5.8	21
153	Drying of porous silicon: a Raman, electron microscopy, and photoluminescence study. <i>Thin Solid Films</i> , <b>1996</b> , 276, 204-207	2.2	21
152	Mechanical and thermophysical properties of diamond-like carbon (DLC) films with different ratios. <i>Diamond and Related Materials</i> , <b>1993</b> , 2, 890-892	3.5	21
151	Magnetic and magnetotransport properties of arrays of nanostructured antidots obtained by self-assembling polystyrene nanosphere lithography. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 09B502	2.5	20
150	Effect of carrier tunneling on the structure of Si nanowires fabricated by metal assisted etching. <i>Nanotechnology</i> , <b>2016</b> , 27, 345301	3.4	20
149	Enhanced Directional Light Emission Assisted by Resonant Bloch Surface Waves in Circular Cavities. <i>ACS Photonics</i> , <b>2019</b> , 6, 2073-2082	6.3	19
148	Geometrically induced electron-electron interaction in semiconductor nanowires. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 123101	3.4	19
147	Tuning ZnO Nanowire Dissolution by Electron Beam Modification of Surface Wetting Properties. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 8011-8021	3.8	18
146	Thermally induced orientational flipping of cylindrical phase diblock copolymers. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 2175-2182	7.1	18
145	Thermal properties of porous silicon layers. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>1997</b> , 76, 383-393		18
144	Driving Cells with Light-Controlled Topographies. <i>Advanced Science</i> , <b>2019</b> , 6, 1801826	13.6	17
143	Band-gap states in unfilled mesoporous nc-TiO <sub>2</sub> : measurement protocol for electrical characterization. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 015102	3	17
142	Realization of a diamond based high density multi electrode array by means of Deep Ion Beam Lithography. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 348, 199-202	1.2	17
141	Nano SNIS Junctions Fabricated by 3D FIB Sculpting for Application to Digital Electronics. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2013</b> , 23, 1101104-1101104	1.8	17
140	Coulomb Blockade Tuned by NO <sub>2</sub> Molecules in Nanostructured Silicon. <i>Advanced Materials</i> , <b>2006</b> , 18, 2422-2425	24	17
139	Anisotropic resistivity of (100)-oriented mesoporous silicon. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 132111	3.4	17
138	Free carriers reactivation on p+-mesoporous silicon through ammonia adsorption: a FTIR study. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 100, 205-208	8.5	17

137	Theoretical and experimental study of heat conduction in as-prepared and oxidized meso-porous silicon. <i>Microelectronics Journal</i> , <b>1999</b> , 30, 1141-1147	1.8	17
136	Ionic Modulation of Electrical Conductivity of ZnO Due to Ambient Moisture. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1900803	4.6	16
135	Photothermal and photoacoustic characterization of porous silicon. <i>Optical Engineering</i> , <b>1997</b> , 36, 423	1.1	16
134	Brillouin scattering of porous silicon. <i>Thin Solid Films</i> , <b>1997</b> , 297, 110-113	2.2	16
133	Porous silicon layer permeated with Sn <sup>IV</sup> mixed oxides for hydrocarbon sensor fabrication. <i>Thin Solid Films</i> , <b>1997</b> , 297, 43-47	2.2	16
132	Thermally activated tunneling in porous silicon nanowires with embedded Si quantum dots. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 105104	3	15
131	Synthesis of Ni <sub>80</sub> Fe <sub>20</sub> and Co nanodot arrays by self-assembling of polystyrene nanospheres: magnetic and microstructural properties. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 4211-4218	2.3	15
130	Submicrometer Functionalization of Porous Silicon by Electron Beam Lithography. <i>Advanced Materials</i> , <b>2003</b> , 15, 1465-1469	24	15
129	Thermal Characterisation of Porous Silicon Membranes. <i>Journal of Porous Materials</i> , <b>2000</b> , 7, 183-186	2.4	15
128	Hierarchical Order in Dewetted Block Copolymer Thin Films on Chemically Patterned Surfaces. <i>ACS Nano</i> , <b>2018</b> , 12, 7076-7085	16.7	15
127	Toward Lateral Length Standards at the Nanoscale Based on Diblock Copolymers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 15685-15697	9.5	14
126	Enabling design and simulation of massive parallel nanoarchitectures. <i>Journal of Parallel and Distributed Computing</i> , <b>2014</b> , 74, 2530-2541	4.4	14
125	Porous silicon in NO <sub>2</sub> : A chemisorption mechanism for enhanced electrical conductivity. <i>Physica Status Solidi A</i> , <b>2003</b> , 197, 103-106		14
124	A Multi-optical Collector of Sunlight Employing Luminescent Materials and Photonic Nanostructures. <i>Advanced Optical Materials</i> , <b>2016</b> , 4, 147-155	8.1	14
123	Properties of metal bolometers fabricated on porous silicon. <i>Applied Surface Science</i> , <b>1999</b> , 142, 267-271	6.7	13
122	Water-Mediated Ionic Migration in Memristive Nanowires with a Tunable Resistive Switching Mechanism. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 48773-48780	9.5	13
121	Optofluidic chip for surface wave-based fluorescence sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 215, 225-230	8.5	12
120	Surface-Wave-Assisted Beaming of Light Radiation from Localized Sources. <i>ACS Photonics</i> , <b>2014</b> , 1, 612-617	6.7	12

119	Fabrication of ordered silicon nanopillars and nanowires by self-assembly and metal-assisted etching. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2011</b> , 208, 1412-1416	1.6	12
118	Preparation, Properties, and Self-Assembly Behavior of PTFE-Based Core-Shell Nanospheres. <i>Journal of Nanomaterials</i> , <b>2012</b> , 2012, 1-15	3.2	12
117	Slow conductivity relaxation and simple aging in nanostructured mesoporous silicon at room temperature. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	12
116	On the apparently anomalous response of porous silicon to nitrogen dioxide. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 4409	3.4	12
115	Lateral structuring of porous silicon: application to waveguides. <i>Physica Status Solidi A</i> , <b>2003</b> , 197, 284-287		12
114	Towards a Deeper Comprehension of the Interaction Mechanisms between Mesoporous Silicon and NO <sub>2</sub> . <i>Physica Status Solidi A</i> , <b>2000</b> , 182, 465-471		12
113	Junction properties of single ZnO nanowires with asymmetrical Pt and Cu contacts. <i>Nanotechnology</i> , <b>2019</b> , 30, 244001	3.4	11
112	Chemisorption of NO <sub>2</sub> at Boron Sites at the Surface of Nanostructured Mesoporous Silicon. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 18306-18310	3.4	11
111	Electron-beam irradiation of porous silicon: Application to micromachining. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 4439-4441	2.5	11
110	Hybrid Approach to Porous Silicon Integrated Waveguides. <i>Physica Status Solidi A</i> , <b>2000</b> , 182, 425-430		11
109	Rapid formation of single crystalline Ge nanowires by anodic metal assisted etching. <i>CrystEngComm</i> , <b>2016</b> , 18, 7843-7848	3.3	11
108	Development and Synchrotron-Based Characterization of Al and Cr Nanostructures as Potential Calibration Samples for 3D Analytical Techniques. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1700866	1.6	11
107	Electroluminescence from a diamond device with ion-beam-micromachined buried graphitic electrodes. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 348, 187-190	1.2	10
106	Effects of high-power laser irradiation on sub-superficial graphitic layers in single-crystal diamond. <i>Acta Materialia</i> , <b>2016</b> , 103, 665-671	8.4	10
105	Impact of pore anisotropy on the thermal conductivity of porous Si nanowires. <i>Scientific Reports</i> , <b>2018</b> , 8, 12796	4.9	10
104	Two-dimensional non-close-packed arrays of nanoparticles via core-shell nanospheres and reactive ion etching. <i>Polymers for Advanced Technologies</i> , <b>2012</b> , 23, 558-564	3.2	10
103	Plasma and thermoforming treatments to tune the bio-inspired wettability of polystyrene. <i>Composites Part B: Engineering</i> , <b>2012</b> , 43, 681-690	10	10
102	Mapping Time-Dependent Conductivity of Metallic Nanowire Networks by Electrical Resistance Tomography toward Transparent Conductive Materials. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 11987-11997	5.6	10

101	Diffusion induced effects on geometry of Ge nanowires. <i>Nanoscale</i> , <b>2014</b> , 6, 7469-73	7.7	9
100	Thickness and Microdomain Orientation of Asymmetric PS-b-PMMA Block Copolymer Films Inside Periodic Gratings. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 23615-22	9.5	9
99	Formation of nanostructured silicon surfaces by stain etching. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 482	5	9
98	Self-catalytic etching of silicon: from nanowires to regular mesopores. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2009</b> , 206, 1250-1254	1.6	9
97	Coulomb blockade sensors based on nanostructured mesoporous silicon. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2007</b> , 38, 197-199	3	9
96	Investigation of the non-radiative processes in porous silicon. <i>Thin Solid Films</i> , <b>1996</b> , 276, 51-54	2.2	9
95	Surface and bulk density of states analysis in a-Si:H by a new interpretation of PDS and CPM measurements. <i>Solid State Communications</i> , <b>1991</b> , 77, 177-180	1.6	9
94	Fabrication of monolithic microfluidic channels in diamond with ion beam lithography. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2017</b> , 404, 193-197	1.2	8
93	Magnetization switching in high-density magnetic nanodots by a fine-tune sputtering process on a large-area diblock copolymer mask. <i>Nanoscale</i> , <b>2017</b> , 9, 16981-16992	7.7	8
92	Fabrication of periodic arrays of metallic nanoparticles by block copolymer templates on HfO <sub>2</sub> substrates. <i>Nanotechnology</i> , <b>2015</b> , 26, 215301	3.4	8
91	Arrays of nanostructured antidot in Ni <sub>80</sub> Fe <sub>20</sub> magnetic thin films by photolithography of polystyrene nanospheres. <i>Applied Surface Science</i> , <b>2012</b> , 259, 44-48	6.7	8
90	Arrays of ordered nanostructures in Fe-Pt thin films by self-assembling of polystyrene nanospheres. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 17B516	2.5	8
89	Molecular doping and gas sensing in Si nanowires: From charge injection to reduced dielectric mismatch. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 204302	2.5	8
88	Preparation and properties of PTFE/PAI nanocomposites. <i>Polymer Composites</i> , <b>2013</b> , 34, 1451-1459	3	8
87	Macro and quasi-mesoporous silicon by self-assembling and metal assisted etching. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2011</b> , 208, 1403-1406	1.6	8
86	Preparation and Thermal Characterization of PTFE/PES Nanocomposites. <i>Macromolecular Symposia</i> , <b>2012</b> , 311, 70-76	0.8	8
85	ESR Study of Conduction Electrons in B-Doped Porous Silicon Generated by the Adsorption of Lewis Bases. <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, G329	3.9	8
84	Hyperbolic Metamaterials via Hierarchical Block Copolymer Nanostructures. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001933	8.1	8



83	Electrical characterization of a graphite-diamond-graphite junction fabricated by MeV carbon implantation. <i>Diamond and Related Materials</i> , <b>2017</b> , 74, 125-131	3.5	7
82	Polycarbonate-based composites reinforced by in situ polytetrafluoroethylene fibrillation: Preparation, thermal and rheological behavior. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	7
81	Porous silicon nanocracking. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2000</b> , 69-70, 161-166	3.1	7
80	Recent Advances in Sequential Infiltration Synthesis (SIS) of Block Copolymers (BCPs). <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	7
79	Vortex Beam Generation by Spin-Orbit Interaction with Bloch Surface Waves. <i>ACS Photonics</i> , <b>2020</b> , 7, 774-783	6.3	6
78	Supersaturation state effect in diffusion induced Ge nanowires growth at high temperatures. <i>Journal of Crystal Growth</i> , <b>2016</b> , 436, 51-55	1.6	6
77	Characterization of the recovery of mechanical properties of ion-implanted diamond after thermal annealing. <i>Diamond and Related Materials</i> , <b>2016</b> , 63, 75-79	3.5	6
76	Photoactive spherical colloids for opal photonic crystals. <i>Polymer Composites</i> , <b>2013</b> , 34, 1443-1450	3	6
75	Influence of substrate in photothermal measurements of thin film absorption. <i>Applied Physics A: Solids and Surfaces</i> , <b>1991</b> , 52, 280-284		6
74	Electric Clock for NanoMagnet Logic Circuits. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 73-110	0.9	6
73	Influence of block copolymer feature size on reactive ion etching pattern transfer into silicon. <i>Nanotechnology</i> , <b>2017</b> , 28, 404001	3.4	5
72	Single-photon emitters based on NIR color centers in diamond coupled with solid immersion lenses. <i>International Journal of Quantum Information</i> , <b>2014</b> , 12, 1560011	0.8	5
71	Exchange bias in nanopatterned Co antidots prepared by self-assembling polystyrene nanospheres. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 5641-5651	2.3	5
70	Si/SiO <sub>2</sub> nanocomposite by CVD infiltration of porous SiO <sub>2</sub> . <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2005</b> , 202, 1529-1532	1.6	5
69	Low dimensional porous silicon superlattices. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2000</b> , 69-70, 48-52	3.1	5
68	Design and fabrication of metal bolometers on high porosity silicon layers. <i>Microelectronics Journal</i> , <b>1999</b> , 30, 1149-1154	1.8	5
67	Temperature Dependence of Photothermal Displacement Signal in Silicon. <i>Journal of Modern Optics</i> , <b>1992</b> , 39, 1803-1809	1.1	5
66	Electrical Contacts on Silicon Nanowires Produced by Metal-Assisted Etching: a Comparative Approach. <i>Nanoscale Research Letters</i> , <b>2016</b> , 11, 468	5	5



65	A modified cryostat for photo-electrical characterization of porous materials in controlled atmosphere at very low gas dosage. <i>AIP Advances</i> , <b>2014</b> , 4, 087134	1.5	4
64	Preparation and Properties of PTFE-PMMA Core-Shell Nanoparticles and Nanocomposites. <i>Journal of Nanotechnology</i> , <b>2012</b> , 2012, 1-10	3.5	4
63	Magnonics Crystal Composed by Magnetic Antivortices Confined in Antidots. <i>IEEE Transactions on Magnetism</i> , <b>2011</b> , 47, 2498-2501	2	4
62	Deep $\beta$ -junctions by porous silicon impregnation. <i>Thin Solid Films</i> , <b>1997</b> , 297, 321-324	2.2	4
61	Boron passivation and its reactivation in mesoporous silicon: a chemical model. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2005</b> , 202, 1567-1570	1.6	4
60	Observation of quantum-confined luminescence in partially oxidized porous silicon. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>2000</b> , 80, 679-689		4
59	Modulated photothermal reflectance on porous silicon. <i>Thin Solid Films</i> , <b>1995</b> , 255, 111-114	2.2	4
58	Directed Self-Assembly of Polystyrene Nanospheres by Direct Laser-Writing Lithography. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	4
57	Electric Clock for NanoMagnet Logic Circuits. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 73-110	0.9	4
56	Structure-Dependent Influence of Moisture on Resistive Switching Behavior of ZnO Thin Films. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2100915	4.6	4
55	First-principles calculations of SO <sub>2</sub> sensing with Si nanowires. <i>European Physical Journal B</i> , <b>2016</b> , 89, 1	1.2	4
54	Quantum conductance in memristive devices: fundamentals, developments, and applications.. <i>Advanced Materials</i> , <b>2022</b> , e2201248	24	4
53	Thickness Modulated Niobium Nanoconstrictions by Focused Ion Beam and Anodization. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-5	1.8	3
52	Fluorescence imaging assisted by surface modes on dielectric multilayers. <i>European Physical Journal D</i> , <b>2014</b> , 68, 1	1.3	3
51	Physical ageing reduction in PES through the incorporation of rigid non-interacting PTFE nanoparticles. <i>Thermochimica Acta</i> , <b>2013</b> , 571, 53-59	2.9	3
50	Silicon nanoarray circuits design, modeling, simulation and fabrication <b>2012</b> ,		3
49	Laser local oxidation of porous silicon: a FTIR spectroscopy investigation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2005</b> , 202, 1658-1661	1.6	3
48	Realisation of membranes for atomic beam collimator by macropore micromachining technique (MMT). <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2000</b> , 69-70, 66-69	3.1	3

47	Photothermal displacement technique: A method to determine the variation of thermal conductivity versus temperature in silicon. <i>Review of Scientific Instruments</i> , <b>1993</b> , 64, 2229-2232	1.7	3
46	High Quality Hydrogenated Amorphous Silicon Carbon Layers as Obtained by a Particular Photochemical Vapor Deposition Method. <i>Physica Status Solidi A</i> , <b>1993</b> , 135, 191-198		3
45	Photothermal subgap spectra of doped silicon wafers. <i>Materials Letters</i> , <b>1991</b> , 12, 257-260	3.3	3
44	Tailored and Guided Dewetting of Block Copolymer/Homopolymer Blends. <i>Macromolecules</i> , <b>2020</b> , 53, 7207-7217	5.5	3
43	Memristive Devices for Quantum Metrology. <i>Advanced Quantum Technologies</i> , <b>2020</b> , 3, 2000009	4.3	3
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41	Low Noise NanoSQUIDs Based on Deep Submicron Josephson Tunnel Junctions. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2015</b> , 25, 1-5	1.8	2
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34	Anisotropic electrical response of mesoporous silicon to NO <sub>2</sub> . <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2007</b> , 204, 1408-1411	1.6	2
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26	Recommended implementation of electrical resistance tomography for conductivity mapping of metallic nanowire networks using voltage excitation. <i>Scientific Reports</i> , <b>2021</b> , 11, 13167	4.9	2
25	Photoacoustic and Photothermal Characterization of Amorphous Semiconductors Thin Films <b>1991</b> , 199-204		2
24	Tunable hydrophobicity assisted by light-responsive surface micro-structures <b>2017</b> ,		1
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21	Large-area patterned magnetic nanostructures by self-assembling of polystyrene nanospheres. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1411, 19		1
20	Structural and Thermal Properties of High Porosity Freeze-Dried Porous Silicon. <i>Solid State Phenomena</i> , <b>1997</b> , 54, 101-108	0.4	1
19	Direct laser writing on porous silicon <b>2003</b> ,		1
18	Electron beam irradiation of porous silicon for application in micromachining and sensing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2005</b> , 202, 1648-1652	1.6	1
17	Etching Silicon Through an Effective Nanomask: An Electrochemical Way to Nanomachining. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 872, 1		1
16	Spontaneous shape transition of Mn Ge islands to long nanowires. <i>Beilstein Journal of Nanotechnology</i> , <b>2021</b> , 12, 366-374	3	1
15	Investigation of Strongly Hydrophobic and Thick Porous Silicon Stain Films Properties. <i>Silicon</i> , <b>2019</b> , 11, 2669-2674	2.4	1
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