Luca Boarino

List of Publications by Year in Descending Order

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	Memristive devices based on single ZnO nanowires: from material synthesis to neuromorphic functionalities. *Semiconductor Science and Technology*, **2022**, 37, 034002	1.8	0
189	Quantum conductance in memristive devices: fundamentals, developments, and applications.. *Advanced Materials*, **2022**, e2201248	24	4
188	In materia reservoir computing with a fully memristive architecture based on self-organizing nanowire networks. *Nature Materials*, **2021**,	27	26
187	Spontaneous shape transition of Mn Ge islands to long nanowires. *Beilstein Journal of Nanotechnology*, **2021**, 12, 366-374	3	1
186	Recent Advances in Sequential Infiltration Synthesis (SIS) of Block Copolymers (BCPs). *Nanomaterials*, **2021**, 11,	5.4	7
185	Recommended implementation of electrical resistance tomography for conductivity mapping of metallic nanowire networks using voltage excitation. *Scientific Reports*, **2021**, 11, 13167	4.9	2
184	Structure-Dependent Influence of Moisture on Resistive Switching Behavior of ZnO Thin Films. *Advanced Materials Interfaces*, **2021**, 8, 2100915	4.6	4
183	Structural Properties of Porous Silicon Nanowires: A Combined Characterization by Advanced Spectroscopic Techniques. *Springer Proceedings in Physics*, **2021**, 191-201	0.2	
182	Metal-insulator transition in single crystalline ZnO nanowires. *Nanotechnology*, **2021**, 32, 185202	3.4	3
181	Hyperbolic Metamaterials via Hierarchical Block Copolymer Nanostructures. *Advanced Optical Materials*, **2021**, 9, 2001933	8.1	8
180	Brain-Inspired Structural Plasticity through Reweighting and Rewiring in Multi-Terminal Self-Organizing Memristive Nanowire Networks. *Advanced Intelligent Systems*, **2020**, 2, 2000096	6	27
179	Vortex Beam Generation by Spin-Orbit Interaction with Bloch Surface Waves. *ACS Photonics*, **2020**, 7, 774-783	6.3	6
178	Core-shell silica-rhodamine B nanosphere for synthetic opals: from fluorescence spectral redistribution to sensing.. *RSC Advances*, **2020**, 10, 14958-14964	3.7	2
177	Directed Self-Assembly of Polystyrene Nanospheres by Direct Laser-Writing Lithography. *Nanomaterials*, **2020**, 10,	5.4	4
176	Water-Mediated Ionic Migration in Memristive Nanowires with a Tunable Resistive Switching Mechanism. *ACS Applied Materials & Interfaces*, **2020**, 12, 48773-48780	9.5	13
175	Towards a traceable enhancement factor in surface-enhanced Raman spectroscopy. *Journal of Materials Chemistry C*, **2020**, 8, 16513-16519	7.1	2
174	Tailored and Guided Dewetting of Block Copolymer/Homopolymer Blends. *Macromolecules*, **2020**, 53, 7207-7217	5.5	3

173	Mapping Time-Dependent Conductivity of Metallic Nanowire Networks by Electrical Resistance Tomography toward Transparent Conductive Materials. *ACS Applied Nano Materials*, **2020**, 3, 11987-11997	5.6	10
172	Brain-Inspired Structural Plasticity through Reweighting and Rewiring in Multi-Terminal Self-Organizing Memristive Nanowire Networks. *Advanced Intelligent Systems*, **2020**, 2, 2080071	6	2
171	Memristive Devices for Quantum Metrology. *Advanced Quantum Technologies*, **2020**, 3, 2000009	4.3	3
170	Electrochemical Nanolithography on Silicon: An Easy and Scalable Method to Control Pore Formation at the Nanoscale. *Materials*, **2019**, 12,	3.5	1
169	Mixed morphology in low molar mass fluorinated block copolymers. *Polymer*, **2019**, 179, 121657	3.9	0
168	Driving Cells with Light-Controlled Topographies. *Advanced Science*, **2019**, 6, 1801826	13.6	17
167	Junction properties of single ZnO nanowires with asymmetrical Pt and Cu contacts. *Nanotechnology*, **2019**, 30, 244001	3.4	11
166	Ionic Modulation of Electrical Conductivity of ZnO Due to Ambient Moisture. *Advanced Materials Interfaces*, **2019**, 6, 1900803	4.6	16
165	Enhanced Directional Light Emission Assisted by Resonant Bloch Surface Waves in Circular Cavities. *ACS Photonics*, **2019**, 6, 2073-2082	6.3	19
164	Investigation of Strongly Hydrophobic and Thick Porous Silicon Stain Films Properties. *Silicon*, **2019**, 11, 2669-2674	2.4	1
163	Tuning ZnO Nanowire Dissolution by Electron Beam Modification of Surface Wetting Properties. *Journal of Physical Chemistry C*, **2018**, 122, 8011-8021	3.8	18
162	Influence of the long-range ordering of gold-coated Si nanowires on SERS. *Scientific Reports*, **2018**, 8, 11305	4.9	24
161	Impact of pore anisotropy on the thermal conductivity of porous Si nanowires. *Scientific Reports*, **2018**, 8, 12796	4.9	10
160	Colloidal Lithography **2018**, 805-814		
159	Development and Synchrotron-Based Characterization of Al and Cr Nanostructures as Potential Calibration Samples for 3D Analytical Techniques. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1700866	1.6	11
158	Self-limited single nanowire systems combining all-in-one memristive and neuromorphic functionalities. *Nature Communications*, **2018**, 9, 5151	17.4	83
157	Hierarchical Order in Dewetted Block Copolymer Thin Films on Chemically Patterned Surfaces. *ACS Nano*, **2018**, 12, 7076-7085	16.7	15
156	Electrical characterization of a graphite-diamond-graphite junction fabricated by MeV carbon implantation. *Diamond and Related Materials*, **2017**, 74, 125-131	3.5	7

155	Tunable hydrophobicity assisted by light-responsive surface micro-structures **2017**,		1
154	Toward Lateral Length Standards at the Nanoscale Based on Diblock Copolymers. *ACS Applied Materials & Interfaces*, **2017**, 9, 15685-15697	9.5	14
153	Fabrication of monolithic microfluidic channels in diamond with ion beam lithography. *Nuclear Instruments & Methods in Physics Research B*, **2017**, 404, 193-197	1.2	8
152	Magnetization switching in high-density magnetic nanodots by a fine-tune sputtering process on a large-area diblock copolymer mask. *Nanoscale*, **2017**, 9, 16981-16992	7.7	8
151	Influence of block copolymer feature size on reactive ion etching pattern transfer into silicon. *Nanotechnology*, **2017**, 28, 404001	3.4	5
150	Electrical control of deep NV centers in diamond by means of sub-superficial graphitic micro-electrodes. *Carbon*, **2017**, 113, 76-86	10.4	25
149	4-Nitrobenzene Grafted in Porous Silicon: Application to Optical Lithography. *Nanoscale Research Letters*, **2016**, 11, 436	5	2
148	Supersaturation state effect in diffusion induced Ge nanowires growth at high temperatures. *Journal of Crystal Growth*, **2016**, 436, 51-55	1.6	6
147	Thickness Modulated Niobium Nanoconstrictions by Focused Ion Beam and Anodization. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-5	1.8	3
146	Thermally activated tunneling in porous silicon nanowires with embedded Si quantum dots. *Journal Physics D: Applied Physics*, **2016**, 49, 105104	3	15
145	Characterization of the recovery of mechanical properties of ion-implanted diamond after thermal annealing. *Diamond and Related Materials*, **2016**, 63, 75-79	3.5	6
144	Effects of high-power laser irradiation on sub-superficial graphitic layers in single-crystal diamond. *Acta Materialia*, **2016**, 103, 665-671	8.4	10
143	Electrical Contacts on Silicon Nanowires Produced by Metal-Assisted Etching: a Comparative Approach. *Nanoscale Research Letters*, **2016**, 11, 468	5	5
142	Geometrically induced electron-electron interaction in semiconductor nanowires. *Applied Physics Letters*, **2016**, 109, 123101	3.4	19
141	First-principles calculations of SO2 sensing with Si nanowires. *European Physical Journal B*, **2016**, 89, 1	1.2	4
140	Fabrication of flexible silicon nanowires by self-assembled metal assisted chemical etching for surface enhanced Raman spectroscopy. *RSC Advances*, **2016**, 6, 93649-93659	3.7	32
139	Rapid formation of single crystalline Ge nanowires by anodic metal assisted etching. *CrystEngComm* , **2016**, 18, 7843-7848	3.3	11
138	Effect of carrier tunneling on the structure of Si nanowires fabricated by metal assisted etching. *Nanotechnology*, **2016**, 27, 345301	3.4	20

137	A Multi-optical Collector of Sunlight Employing Luminescent Materials and Photonic Nanostructures. *Advanced Optical Materials*, **2016**, 4, 147-155	8.1	14
136	Polymer Distributed Bragg Reflectors for Vapor Sensing. *ACS Photonics*, **2015**, 2, 537-543	6.3	82
135	Electroluminescence from a diamond device with ion-beam-micromachined buried graphitic electrodes. *Nuclear Instruments & Methods in Physics Research B*, **2015**, 348, 187-190	1.2	10
134	Fabrication of periodic arrays of metallic nanoparticles by block copolymer templates on HfO2 substrates. *Nanotechnology*, **2015**, 26, 215301	3.4	8
133	Optofluidic chip for surface wave-based fluorescence sensing. *Sensors and Actuators B: Chemical*, **2015**, 215, 225-230	8.5	12
132	Morphological and Optical Properties of Stain Etched Silicon in Vanadium Oxide (V2O5) / Hydrofluoric Acid (HF) Solution. *ECS Transactions*, **2015**, 69, 87-93	1	
131	New Sensing Strategies Based on Surface Modes in Photonic Crystals **2015**, 321-337		1
130	Hybrid ZnO:polystyrene nanocomposite for all-polymer photonic crystals. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2015**, 12, 158-162		26
129	Low Noise NanoSQUIDs Based on Deep Submicron Josephson Tunnel Junctions. *IEEE Transactions on Applied Superconductivity*, **2015**, 25, 1-5	1.8	2
128	Electrical stimulation of non-classical photon emission from diamond color centers by means of sub-superficial graphitic electrodes. *Scientific Reports*, **2015**, 5, 15901	4.9	23
127	Polycarbonate-based composites reinforced by in situ polytetrafluoroethylene fibrillation: Preparation, thermal and rheological behavior. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	7
126	Resistive switching in high-density nanodevices fabricated by block copolymer self-assembly. *ACS Nano*, **2015**, 9, 2518-29	16.7	56
125	Thickness and Microdomain Orientation of Asymmetric PS-b-PMMA Block Copolymer Films Inside Periodic Gratings. *ACS Applied Materials & Interfaces*, **2015**, 7, 23615-22	9.5	9
124	Realization of a diamond based high density multi electrode array by means of Deep Ion Beam Lithography. *Nuclear Instruments & Methods in Physics Research B*, **2015**, 348, 199-202	1.2	17
123	Nanostructures Based on Porous Silicon **2015**, 1-13		
122	Monolithic cells for solar fuels. *Chemical Society Reviews*, **2014**, 43, 7963-81	58.5	165
121	Band-gap states in unfilled mesoporous nc-TiO2: measurement protocol for electrical characterization. *Journal Physics D: Applied Physics*, **2014**, 47, 015102	3	17
120	Colloidal Lithography **2014**, 1-9		

119	Diffusion induced effects on geometry of Ge nanowires. *Nanoscale*, **2014**, 6, 7469-73	7.7	9
118	Thermally induced orientational flipping of cylindrical phase diblock copolymers. *Journal of Materials Chemistry C*, **2014**, 2, 2175-2182	7.1	18
117	Ordering dynamics in symmetric PS-b-PMMA diblock copolymer thin films during rapid thermal processing. *Journal of Materials Chemistry C*, **2014**, 2, 6655-6664	7.1	46
116	Enabling design and simulation of massive parallel nanoarchitectures. *Journal of Parallel and Distributed Computing*, **2014**, 74, 2530-2541	4.4	14
115	Fluorescence imaging assisted by surface modes on dielectric multilayers. *European Physical Journal D*, **2014**, 68, 1	1.3	3
114	Surface-Wave-Assisted Beaming of Light Radiation from Localized Sources. *ACS Photonics*, **2014**, 1, 612-617	6.3	12
113	Bessel-like photonic nanojets from core-shell sub-wavelength spheres. *Optics Letters*, **2014**, 39, 3989-92	3	33
112	Niobium nano-SQUIDs based on sub-micron tunnel junction fabricated by three-dimensional Focused Ion Beam sculpting. *Journal of Physics: Conference Series*, **2014**, 507, 042011	0.3	2
111	Focusing and extraction of light mediated by Bloch surface waves. *Scientific Reports*, **2014**, 4, 5428	4.9	46
110	Evolution of lateral ordering in symmetric block copolymer thin films upon rapid thermal processing. *Nanotechnology*, **2014**, 25, 275601	3.4	22
109	Magnetoelastic Clock System for Nanomagnet Logic. *IEEE Nanotechnology Magazine*, **2014**, 13, 963-973	2.6	30
108	A modified cryostat for photo-electrical characterization of porous materials in controlled atmosphere at very low gas dosage. *AIP Advances*, **2014**, 4, 087134	1.5	4
107	Colloidal Lithography **2014**, 541-550		0
106	Formation of nanostructured silicon surfaces by stain etching. *Nanoscale Research Letters*, **2014**, 9, 482	5	9
105	Single-photon emitters based on NIR color centers in diamond coupled with solid immersion lenses. *International Journal of Quantum Information*, **2014**, 12, 1560011	0.8	5
104	Electric Clock for NanoMagnet Logic Circuits. *Lecture Notes in Computer Science*, **2014**, 73-110	0.9	6
103	Electric Clock for NanoMagnet Logic Circuits. *Lecture Notes in Computer Science*, **2014**, 73-110	0.9	4
102	Depth Profiling and Melting of Nanoparticles in Secondary Ion Mass Spectrometry (SIMS). *Journal of Physical Chemistry C*, **2013**, 117, 16042-16052	3.8	25

101	Thermal and mechanical properties of PES/PTFE composites and nanocomposites. *Journal of Applied Polymer Science*, **2013**, 130, 3624-3633	2.9	27
100	Physical ageing reduction in PES through the incorporation of rigid non-interacting PTFE nanoparticles. *Thermochimica Acta*, **2013**, 571, 53-59	2.9	3
99	Nano SNIS Junctions Fabricated by 3D FIB Sculpting for Application to Digital Electronics. *IEEE Transactions on Applied Superconductivity*, **2013**, 23, 1101104-1101104	1.8	17
98	Arrays of ordered nanostructures in Fe-Pt thin films by self-assembling of polystyrene nanospheres. *Journal of Applied Physics*, **2013**, 113, 17B516	2.5	8
97	Magnetic and Magnetoresistive Properties of Thin Films Patterned by Self-Assembling Polystyrene Nanospheres. *Springer Series in Materials Science*, **2013**, 171-195	0.9	0
96	Molecular doping and gas sensing in Si nanowires: From charge injection to reduced dielectric mismatch. *Journal of Applied Physics*, **2013**, 114, 204302	2.5	8
95	Leakage radiation interference microscopy. *Optics Letters*, **2013**, 38, 3374-6	3	31
94	Fluorescence diffraction assisted by Bloch surface waves on a one-dimensional photonic crystal. *New Journal of Physics*, **2013**, 15, 073002	2.9	32
93	Photoactive spherical colloids for opal photonic crystals. *Polymer Composites*, **2013**, 34, 1443-1450	3	6
92	Preparation and properties of PTFE/PAI nanocomposites. *Polymer Composites*, **2013**, 34, 1451-1459	3	8
91	Size scaling of mesoporous silica membranes produced by nanosphere mediated laser ablation. *Nanotechnology*, **2012**, 23, 485305	3.4	31
90	Silicon nanoarray circuits design, modeling, simulation and fabrication **2012**,		3
89	Arrays of nanostructured antidot in Ni80Fe20 magnetic thin films by photolithography of polystyrene nanospheres. *Applied Surface Science*, **2012**, 259, 44-48	6.7	8
88	Preparation, properties and self-assembly behavior of PTFE based core-shell nanospheres **2012**,		2
87	Sub-Micron SNIS Josephson Junctions for Metrological Application. *Physics Procedia*, **2012**, 36, 105-109		2
86	Preparation and Properties of PTFE-PMMA Core-Shell Nanoparticles and Nanocomposites. *Journal of Nanotechnology*, **2012**, 2012, 1-10	3.5	4
85	Two-dimensional non-close-packed arrays of nanoparticles via core-shell nanospheres and reactive ion etching. *Polymers for Advanced Technologies*, **2012**, 23, 558-564	3.2	10
84	PTFE–PMMA core–shell colloidal particles as building blocks for self-assembled opals: synthesis, properties and optical response. *Polymer International*, **2012**, 61, 1294-1301	3.3	31

83	Plasma and thermoforming treatments to tune the bio-inspired wettability of polystyrene. *Composites Part B: Engineering*, **2012**, 43, 681-690	10	10
82	Preparation, Properties, and Self-Assembly Behavior of PTFE-Based Core-Shell Nanospheres. *Journal of Nanomaterials*, **2012**, 2012, 1-15	3.2	12
81	Large-area patterned magnetic nanostructures by self-assembling of polystyrene nanospheres. *Materials Research Society Symposia Proceedings*, **2012**, 1411, 19		1
80	Preparation and Thermal Characterization of PTFE/PES Nanocomposites. *Macromolecular Symposia*, **2012**, 311, 70-76	0.8	8
79	Magnonics Crystal Composed by Magnetic Antivortices Confined in Antidots. *IEEE Transactions on Magnetics*, **2011**, 47, 2498-2501	2	4
78	Exchange bias in nanopatterned Co antidots prepared by self-assembling polystyrene nanospheres. *Journal of Nanoparticle Research*, **2011**, 13, 5641-5651	2.3	5
77	Synthesis of Ni80Fe20 and Co nanodot arrays by self-assembling of polystyrene nanospheres: magnetic and microstructural properties. *Journal of Nanoparticle Research*, **2011**, 13, 4211-4218	2.3	15
76	Fabrication of ordered silicon nanopillars and nanowires by self-assembly and metal-assisted etching. *Physica Status Solidi (A) Applications and Materials Science*, **2011**, 208, 1412-1416	1.6	12
75	Macro and quasi-mesoporous silicon by self-assembling and metal assisted etching. *Physica Status Solidi (A) Applications and Materials Science*, **2011**, 208, 1403-1406	1.6	8
74	Magnetic and magnetotransport properties of arrays of nanostructured antidots obtained by self-assembling polystyrene nanosphere lithography. *Journal of Applied Physics*, **2010**, 107, 09B502	2.5	20
73	Self-catalytic etching of silicon: from nanowires to regular mesopores. *Physica Status Solidi (A) Applications and Materials Science*, **2009**, 206, 1250-1254	1.6	9
72	Coulomb blockade effects in the electrical characteristics of mesoporous silicon. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2009**, 6, 1648-1650		
71	Electrical Properties of Mesoporous Silicon: From a Surface Effect to Coulomb Blockade and More. *Journal of the Electrochemical Society*, **2009**, 156, K223	3.9	27
70	Slow conductivity relaxation and simple aging in nanostructured mesoporous silicon at room temperature. *Physical Review B*, **2007**, 75,	3.3	12
69	Coulomb blockade sensors based on nanostructured mesoporous silicon. *Physica E: Low-Dimensional Systems and Nanostructures*, **2007**, 38, 197-199	3	9
68	Anisotropic electrical response of mesoporous silicon to NO2. *Physica Status Solidi (A) Applications and Materials Science*, **2007**, 204, 1408-1411	1.6	2
67	Coulomb Blockade Tuned by NO2 Molecules in Nanostructured Silicon. *Advanced Materials*, **2006**, 18, 2422-2425	24	17
66	Anisotropic resistivity of (100)-oriented mesoporous silicon. *Applied Physics Letters*, **2006**, 89, 132111	3.4	17

65	Magnetic and electronic transport percolation in epitaxial Ge1−xMnx films. *Physical Review B*, **2005**, 72,	3.3	81
64	ESR Study of Conduction Electrons in B-Doped Porous Silicon Generated by the Adsorption of Lewis Bases. *Journal of the Electrochemical Society*, **2005**, 152, G329	3.9	8
63	A Nanostructured Porous Silicon Near Insulator Becomes Either a p- or an n-Type Semiconductor upon Gas Adsorption. *Advanced Materials*, **2005**, 17, 528-531	24	39
62	Monitoring plants health in greenhouse for space missions. *Sensors and Actuators B: Chemical*, **2005**, 108, 278-284	8.5	27
61	Si/SiO2 nanocomposite by CVD infiltration of porous SiO2. *Physica Status Solidi (A) Applications and Materials Science*, **2005**, 202, 1529-1532	1.6	5
60	Boron passivation and its reactivation in mesoporous silicon: a chemical model. *Physica Status Solidi (A) Applications and Materials Science*, **2005**, 202, 1567-1570	1.6	4
59	Electron beam irradiation of porous silicon for application in micromachining and sensing. *Physica Status Solidi (A) Applications and Materials Science*, **2005**, 202, 1648-1652	1.6	1
58	Laser local oxidation of porous silicon: a FTIR spectroscopy investigation. *Physica Status Solidi (A) Applications and Materials Science*, **2005**, 202, 1658-1661	1.6	3
57	Etching Silicon Through an Effective Nanomask: An Electrochemical Way to Nanomachining. *Materials Research Society Symposia Proceedings*, **2005**, 872, 1		1
56	Space Charge Limited Current in Porous Silicon with traces of Nitrogen Dioxide. *Materials Research Society Symposia Proceedings*, **2005**, 872, 1		
55	CHECS (Closed Habitat Environmental Control Sensors) **2004**,		2
54	Free carriers reactivation on p+-mesoporous silicon through ammonia adsorption: a FTIR study. *Sensors and Actuators B: Chemical*, **2004**, 100, 205-208	8.5	17
53	Chemisorption of NO2 at Boron Sites at the Surface of Nanostructured Mesoporous Silicon. *Journal of Physical Chemistry B*, **2004**, 108, 18306-18310	3.4	11
52	On the apparently anomalous response of porous silicon to nitrogen dioxide. *Applied Physics Letters* , **2004**, 85, 4409	3.4	12
51	Direct laser writing on porous silicon **2003**,		1
50	Submicrometer Functionalization of Porous Silicon by Electron Beam Lithography. *Advanced Materials*, **2003**, 15, 1465-1469	24	15
49	Reversible Insulator-to-Metal Transition in p+-Type Mesoporous Silicon Induced by the Adsorption of Ammonia. *Angewandte Chemie*, **2003**, 115, 5186-5189	3.6	2
48	Reversible insulator-to-metal transition in p+-type mesoporous silicon induced by the adsorption of ammonia. *Angewandte Chemie - International Edition*, **2003**, 42, 5032-5	16.4	40

47	Porous silicon in NO2: A chemisorption mechanism for enhanced electrical conductivity. *Physica Status Solidi A*, **2003**, 197, 103-106		14
46	Lateral structuring of porous silicon: application to waveguides. *Physica Status Solidi A*, **2003**, 197, 284-287		12
45	Sensing CO2 in a chemically modified porous silicon film. *Physica Status Solidi A*, **2003**, 197, 365-369		47
44	Patterning of Porous Silicon by Electron-Beam Lithography. *Journal of the Electrochemical Society*, **2003**, 150, G311	3.9	21
43	Electron-beam irradiation of porous silicon: Application to micromachining. *Journal of Applied Physics*, **2003**, 93, 4439-4441	2.5	11
42	Front-side micromachined porous silicon nitrogen dioxide gas sensor. *Thin Solid Films*, **2001**, 391, 261-264	1.2	50
41	High-quality porous-silicon buried waveguides. *Applied Physics Letters*, **2001**, 78, 3003-3005	3.4	47
40	IR detection of NO2 using p+ porous silicon as a high sensitivity sensor. *Chemical Communications*, **2001**, 2196-7	5.8	21
39	Local environment of Boron impurities in porous silicon and their interaction with NO2 molecules. *Physical Review B*, **2001**, 64,	3.3	46
38	Observation of quantum-confined luminescence in partially oxidized porous silicon. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **2000**, 80, 679-689		4
37	Hybrid Approach to Porous Silicon Integrated Waveguides. *Physica Status Solidi A*, **2000**, 182, 425-430		11
36	Towards a Deeper Comprehension of the Interaction Mechanisms between Mesoporous Silicon and NO2. *Physica Status Solidi A*, **2000**, 182, 465-471		12
35	Porous silicon nanocracking. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2000**, 69-70, 161-166	3.1	7
34	NO2 monitoring at room temperature by a porous silicon gas sensor. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2000**, 69-70, 210-214	3.1	114
33	Realisation of membranes for atomic beam collimator by macropore micromachining technique (MMT). *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2000**, 69-70, 66-69	3.1	3
32	Low dimensional porous silicon superlattices. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2000**, 69-70, 48-52	3.1	5
31	Superlattices as Characterisation Tool for the Beginning of PS Formation. *Journal of Porous Materials*, **2000**, 7, 373-376	2.4	
30	Thermal Characterisation of Porous Silicon Membranes. *Journal of Porous Materials*, **2000**, 7, 183-186	2.4	15

29	Theoretical and experimental study of heat conduction in as-prepared and oxidized meso-porous silicon. *Microelectronics Journal*, **1999**, 30, 1141-1147	1.8	17
28	Design and fabrication of metal bolometers on high porosity silicon layers. *Microelectronics Journal*, **1999**, 30, 1149-1154	1.8	5
27	Properties of metal bolometers fabricated on porous silicon. *Applied Surface Science*, **1999**, 142, 267-271	6.7	13
26	Micromachining of silicon with a proton microbeam. *Nuclear Instruments & Methods in Physics Research B*, **1999**, 158, 173-178	1.2	32
25	Photothermal and photoacoustic characterization of porous silicon. *Optical Engineering*, **1997**, 36, 423	1.1	16
24	Porous Silicon Bragg Reflectors for Colour Sensing Applications. *Solid State Phenomena*, **1997**, 54, 50-54	0.4	2
23	On the role of germanium in porous silicon-germanium luminescence. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **1997**, 76, 395-403		
22	Thermal properties of porous silicon layers. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **1997**, 76, 383-393		18
21	Structural and Thermal Properties of High Porosity Freeze-Dried Porous Silicon. *Solid State Phenomena*, **1997**, 54, 101-108	0.4	1
20	Deep □old□unctions by porous silicon impregnation. *Thin Solid Films*, **1997**, 297, 321-324	2.2	4
19	Brillouin scattering of porous silicon. *Thin Solid Films*, **1997**, 297, 110-113	2.2	16
18	Evaluation of thermal conductivity of porous silicon layers by a photoacoustic method. *Applied Physics A: Materials Science and Processing*, **1997**, 64, 155-159	2.6	81
17	Porous silicon layer permeated with Sn□ mixed oxides for hydrocarbon sensor fabrication. *Thin Solid Films*, **1997**, 297, 43-47	2.2	16
16	Quantum confinement and disorder in porous silicon: Effects on the optical and transport properties. *Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics*, **1996**, 18, 1111-1119		
15	Drying of porous silicon: a Raman, electron microscopy, and photoluminescence study. *Thin Solid Films*, **1996**, 276, 204-207	2.2	21
14	Investigation of the non-radiative processes in porous silicon. *Thin Solid Films*, **1996**, 276, 51-54	2.2	9
13	Modulated photothermal reflectance on porous silicon. *Thin Solid Films*, **1995**, 255, 111-114	2.2	4
12	Modulated photothermal reflectance characterization of doped silicon wafers. *Physica Status Solidi A*, **1994**, 146, 777-783		2

11	Mechanical and thermophysical properties of diamond-like carbon (DLC) films with different ratios. *Diamond and Related Materials*, **1993**, 2, 890-892	3.5	21
10	Photothermal displacement technique: A method to determine the variation of thermal conductivity versus temperature in silicon. *Review of Scientific Instruments*, **1993**, 64, 2229-2232	1.7	3
9	High Quality Hydrogenated Amorphous Silicon Carbon Layers as Obtained by a Particular Photochemical Vapor Deposition Method. *Physica Status Solidi A*, **1993**, 135, 191-198		3
8	Surface and Bulk GAP States Distributions in Amorphous Silicon Films as Obtained by Optical Methods. *Materials Research Society Symposia Proceedings*, **1992**, 258, 299		2
7	Temperature Dependence of Photothermal Displacement Signal in Silicon. *Journal of Modern Optics* , **1992**, 39, 1803-1809	1.1	5
6	Photoacoustic and photothermal deflection spectroscopy of semiconductors. *IEE Proceedings, Part A: Science, Measurement and Technology*, **1992**, 139, 161		2
5	Surface and bulk density of states analysis in a-Si:H by a new interpretation of PDS and CPM measurements. *Solid State Communications*, **1991**, 77, 177-180	1.6	9
4	Influence of substrate in photothermal measurements of thin film absorption. *Applied Physics A: Solids and Surfaces*, **1991**, 52, 280-284		6
3	Photothermal subgap spectra of doped silicon wafers. *Materials Letters*, **1991**, 12, 257-260	3.3	3
2	Photoacoustic and Photothermal Characterization of Amorphous Semiconductors Thin Films **1991**, 199-204		2
1	Photothermal detection of surface states in amorphous silicon films. *Applied Physics A: Solids and Surfaces*, **1990**, 50, 503-507		25