

Dario Narducci

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141
papers

1,938
citations

23
h-index

39
g-index

155
ext. papers

2,229
ext. citations

3.7
avg. IF

5.2
L-index

#	Paper	IF	Citations
141	Thermoelectrics: From history, a window to the future. <i>Materials Science and Engineering Reports</i> , 2019 , 138, 100501	30.9	190
140	Thick Film ZnO Resistive Gas Sensors: Analysis of Their Kinetic Behavior. <i>Journal of the Electrochemical Society</i> , 1989 , 136, 1945-1948	3.9	147
139	Impact of energy filtering and carrier localization on the thermoelectric properties of granular semiconductors. <i>Journal of Solid State Chemistry</i> , 2012 , 193, 19-25	3.3	131
138	Simultaneous increase in electrical conductivity and Seebeck coefficient in highly boron-doped nanocrystalline Si. <i>Nanotechnology</i> , 2013 , 24, 205402	3.4	110
137	Do we really need high thermoelectric figures of merit? A critical appraisal to the power conversion efficiency of thermoelectric materials. <i>Applied Physics Letters</i> , 2011 , 99, 102104	3.4	88
136	Encapsulating Eu ³⁺ complex doped layers to improve Si-based solar cell efficiency. <i>Progress in Photovoltaics: Research and Applications</i> , 2009 , 17, 519-525	6.8	65
135	Influence of Extended Defects and Native Impurities on the Electrical Properties of Directionally Solidified Polycrystalline Silicon. <i>Journal of the Electrochemical Society</i> , 1988 , 135, 155-165	3.9	65
134	Surface modification strategies on mesoporous silica nanoparticles for anti-biofouling zwitterionic film grafting. <i>Advances in Colloid and Interface Science</i> , 2015 , 226, 166-86	14.3	46
133	Formation of stable Si-O-C submonolayers on hydrogen-terminated silicon(111) under low-temperature conditions. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 19-26	3	42
132	High Power Thermoelectric Generator Based on Vertical Silicon Nanowires. <i>Nano Letters</i> , 2020 , 20, 4748-4753	11.5	35
131	Silicon de novo: energy filtering and enhanced thermoelectric performances of nanocrystalline silicon and silicon alloys. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 12176-12185	7.1	35
130	Preferential formation of Si-O-C over Si-C linkage upon thermal grafting on hydrogen-terminated silicon (111). <i>Chemistry - A European Journal</i> , 2014 , 20, 15151-8	4.8	35
129	Electron paramagnetic resonance study of the interaction of the ZnO surface with air and air-reducing gas mixtures. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992 , 88, 1691-1694		29
128	Synergizing nucleic acid aptamers with 1-dimensional nanostructures as label-free field-effect transistor biosensors. <i>Biosensors and Bioelectronics</i> , 2013 , 50, 278-93	11.8	28
127	Smart integration of silicon nanowire arrays in all-silicon thermoelectric micro-nanogenerators. <i>Semiconductor Science and Technology</i> , 2016 , 31, 084001	1.8	28
126	Enhancement of the power factor in two-phase silicon-boron nanocrystalline alloys. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 1255-1258	1.6	26
125	An introduction to nanotechnologies: what's in it for us?. <i>Veterinary Research Communications</i> , 2007 , 31 Suppl 1, 131-7	2.9	26

124	Parametric modeling of energy filtering by energy barriers in thermoelectric nanocomposites. <i>Journal of Applied Physics</i> , 2015 , 117, 035102	2.5	24
123	Efficiency enhancement of a-Si and CZTS solar cells using different thermoelectric hybridization strategies. <i>Energy</i> , 2017 , 131, 230-238	7.9	23
122	Paradoxical Enhancement of the Power Factor of Polycrystalline Silicon as a Result of the Formation of Nanovoids. <i>Journal of Electronic Materials</i> , 2014 , 43, 3812-3816	1.9	23
121	Transmission electron microscopy investigation of tin sub-oxide nucleation upon SnO ₂ deposition on silicon. <i>Applied Physics Letters</i> , 1996 , 68, 1207-1208	3.4	23
120	Short-range order of Zn and Cu in metaphosphate glasses by X-ray diffraction. <i>Journal of Non-Crystalline Solids</i> , 1989 , 111, 221-227	3.9	23
119	Coordination of zinc and copper in phosphate glasses by EXAFS. <i>Journal of Non-Crystalline Solids</i> , 1991 , 136, 198-204	3.9	23
118	Fractal Nanotechnology. <i>Nanoscale Research Letters</i> , 2008 , 3, 381-385	5	22
117	Thermal and UV Hydrosilylation of Alcohol-Based Bifunctional Alkynes on Si (111) surfaces: How surface radicals influence surface bond formation. <i>Scientific Reports</i> , 2015 , 5, 11299	4.9	21
116	Challenges and Perspectives in Tandem Thermoelectric/Photovoltaic Solar Energy Conversion. <i>IEEE Nanotechnology Magazine</i> , 2016 , 15, 348-355	2.6	21
115	Power Factor Enhancement by Inhomogeneous Distribution of Dopants in Two-Phase Nanocrystalline Systems. <i>Journal of Electronic Materials</i> , 2014 , 43, 1896-1904	1.9	19
114	Enhanced phonon scattering by nanovoids in high thermoelectric power factor polysilicon thin films. <i>Applied Physics Letters</i> , 2016 , 109, 253104	3.4	19
113	Paramagnetic point defects in SnO ₂ and their reactivity with the surrounding gases. Part 1. Interaction of oxygen lattice centres with vapour-phase H ₂ O, air, inert and combustible gases, as revealed by electron paramagnetic resonance spectroscopy. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992 , 89, 2711-2718		18
112	Thermoelectric harvesters and the internet of things: technological and economic drivers. <i>JPhys Energy</i> , 2019 , 1, 024001	4.9	17
111	Biosensing at the Nanoscale: There's Plenty of Room Inside. <i>Science of Advanced Materials</i> , 2011 , 3, 426-435	3.5	17
110	Ultradense silicon nanowire arrays produced via top-down planar technology. <i>Microelectronic Engineering</i> , 2011 , 88, 877-881	2.5	16
109	Infrared specular reflection spectra of copper-zinc phosphate glasses. <i>Vibrational Spectroscopy</i> , 1994 , 7, 169-173	2.1	16
108	Defect Clustering and Boron Electrical Deactivation in p-Doped Polycrystalline Diamond Films. <i>Journal of the Electrochemical Society</i> , 1991 , 138, 2446-2451	3.9	16
107	Conditions for beneficial coupling of thermoelectric and photovoltaic devices. <i>Journal of Materials Research</i> , 2015 , 30, 2663-2669	2.5	15

106	Chemical, energetic, and geometric heterogeneity of device-quality (1 0 0) surfaces of single crystalline silicon after HFaq etching. <i>Applied Surface Science</i> , 2008 , 254, 5781-5790	6.7	15
105	Geometrical reconstructions and electronic relaxations of silicon surfaces. I. An electron density topological study of H-covered and clean Si(111)($\sqrt{3}\times\sqrt{3}$) surfaces. <i>Journal of Chemical Physics</i> , 2000 , 112, 887-899	3.9	15
104	Experimental evidence and computational analysis of the electronic density modulation induced by gaseous molecules at Si(001) surfaces upon self-assembling organic monolayer. <i>Applied Surface Science</i> , 2001 , 175-176, 379-385	6.7	14
103	Enhanced Thermoelectric Properties of Strongly Degenerate Polycrystalline Silicon upon Second Phase Segregation. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1314, 1		13
102	Terascale integration via a redesign of the crossbar based on a vertical arrangement of poly-Si nanowires. <i>Semiconductor Science and Technology</i> , 2010 , 25, 095011	1.8	12
101	Combined IR and XPS analysis of the native (1 0 0) surface of single-crystalline silicon after HFaq etching. <i>Surface and Interface Analysis</i> , 2007 , 39, 836-844	1.5	12
100	Nanostructured potential well/barrier engineering for realizing unprecedentedly large thermoelectric power factors. <i>Materials Today Physics</i> , 2019 , 11, 100159	8	12
99	Synergy between defects, charge neutrality and energy filtering in hyper-doped nanocrystalline materials for high thermoelectric efficiency. <i>Nanoscale</i> , 2019 , 11, 7667-7673	7.7	11
98	Investigation of gas-surface interactions at self-assembled silicon surfaces acting as gas sensors. <i>Applied Surface Science</i> , 2003 , 212-213, 491-496	6.7	11
97	Boron diffusivity in nonimplanted diamond single crystals measured by impedance spectroscopy. <i>Journal of Applied Physics</i> , 1990 , 68, 1184-1186	2.5	11
96	Analysis of Thermal Losses for a Variety of Single-Junction Photovoltaic Cells: An Interesting Means of Thermoelectric Heat Recovery. <i>Journal of Electronic Materials</i> , 2015 , 44, 1809-1813	1.9	9
95	Energy Filtering and Thermoelectrics: Artifact or Artifice?. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 1663-667	1.3	9
94	Electrical Characterization of Metal Contacts on Diamond Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1989 , 162, 333		9
93	Phonon Scattering in Silicon by Multiple Morphological Defects: A Multiscale Analysis. <i>Journal of Electronic Materials</i> , 2018 , 47, 5148-5157	1.9	8
92	Evidence for H ₂ at high pressure in the silicon nanocavities after dipping in HF solution. <i>Surface Science</i> , 2009 , 603, 2188-2192	1.8	8
91	High figures of merit in degenerate semiconductors. Energy filtering by grain boundaries in heavily doped polycrystalline silicon 2012 ,		8
90	Infrared microcharacterization of grain boundaries in polycrystalline silicon. <i>Solid State Communications</i> , 1989 , 69, 457-460	1.6	8
89	High temperature standard gibbs free energy determinations for Co-o systems by e.m.f. measurements. A statistical approach to evaluate the reliability of the current methods. <i>Materials Chemistry and Physics</i> , 1985 , 12, 377-388	4.4	8

88	Practical development of efficient thermoelectric [Photovoltaic hybrid systems based on wide-gap solar cells. <i>Applied Energy</i> , 2021 , 300, 117343	10.7	8
87	Interplay between synthetic conditions and micromorphology in poly(3,4-ethylenedioxythiophene):tosylate (PEDOT:Tos): an atomistic investigation. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 8580-8586	3.6	7
86	Influence of Grain Size on the Thermoelectric Properties of Polycrystalline Silicon Nanowires. <i>Journal of Electronic Materials</i> , 2015 , 44, 371-376	1.9	7
85	Theoretical Analysis of Two Novel Hybrid Thermoelectric-Photovoltaic Systems Based on Cu ₂ NnSnS ₃ Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 1608-615	1.3	7
84	Nanocavities in silicon: An infrared investigation of internal surface reconstruction after hydrogen implantation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009 , 159-160, 173-176	3.1	7
83	Crossbar architecture for tera-scale integration. <i>Semiconductor Science and Technology</i> , 2011 , 26, 045005.8	1.8	7
82	Vibrational study on styrene functionalized porous silicon: A method for determining the relative yield of different grafting routes. <i>Surface Science</i> , 2007 , 601, 2836-2839	1.8	7
81	Impact of synthetic conditions on the anisotropic thermal conductivity of poly(3,4-ethylenedioxythiophene) (PEDOT): A molecular dynamics investigation. <i>Physical Review Materials</i> , 2020 , 4,	3.2	7
80	Recombination effects and impurity segregation at grain boundaries in polycrystalline silicon. <i>Revue De Physique Appliquée</i> , 1987 , 22, 631-636		7
79	Experimental Determination of Power Losses and Heat Generation in Solar Cells for Photovoltaic-Thermal Applications. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 6291-6298 ¹⁶	1.6	6
78	Nanovoid Formation and Dynamics in He ⁺ -Implanted Nanocrystalline Silicon. <i>Journal of Electronic Materials</i> , 2014 , 43, 3852-3856	1.9	6
77	Phonon scattering enhancement in silicon nanolayers. <i>Journal of Materials Science</i> , 2013 , 48, 2779-2784	4.3	6
76	Strain-induced generation of silicon nanopillars. <i>Nanotechnology</i> , 2013 , 24, 335302	3.4	6
75	Hydrogen injection and retention in nanocavities of single-crystalline silicon. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 062001	3	6
74	CO determination in air by YSZ-based sensors. <i>Sensors and Actuators B: Chemical</i> , 1994 , 19, 566-568	8.5	6
73	Spectromagnetic evidence for spatial correlation of copper centres in phosphate glasses and its effect on the charge-transport processes. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1987 , 83, 3587		6
72	Efficiency at Maximum Power of Dissipative Thermoelectric Generators: A Finite-time Thermodynamic Analysis. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 6274-6278	1.6	5
71	Assigning chemical configurations to the XPS features observed at pristine (1 0 0) Si surface resulting after etching in HF aqueous solution. <i>Applied Surface Science</i> , 2010 , 256, 6330-6339	6.7	5

70	Modulation of Si(100) electronic surface density due to supramolecular interactions of gaseous molecules with self-assembled organic monolayers. <i>Materials Science and Engineering C</i> , 2001 , 15, 253-255	8.3	5
69	Chemically induced disordering of Si (100) surfaces upon SC1/SC2 etching analysed by high-resolution transmission electron microscopy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000 , 73, 154-157	3.1	5
68	Fabrication of Silicon Nanowire Forests for Thermoelectric Applications by Metal-Assisted Chemical Etching. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 6279-6285	1.6	5
67	Effect of Impurity Segregation on the Electrical Properties of Grain Boundaries in Polycrystalline Silicon. <i>NATO ASI Series Series B: Physics</i> , 1989 , 105-121		5
66	Compact Model for Thermoelectric Power Factor Enhancement by Energy Barriers in a Two-phase Composite Semiconductor. <i>Materials Today: Proceedings</i> , 2015 , 2, 497-503	1.4	4
65	On the mechanism ruling the morphology of silicon nanowires obtained by one-pot metal-assisted chemical etching. <i>Nanotechnology</i> , 2020 , 31, 404002	3.4	4
64	Annealing of Heavily Boron-Doped Silicon: Effect on Electrical and Thermoelectric Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 1657-662	1.3	4
63	Nanograin Effects on the Thermoelectric Properties of Poly-Si Nanowires. <i>Journal of Electronic Materials</i> , 2013 , 42, 2393-2401	1.9	4
62	Recent achievements in semiconductor defect passivation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1997 , 45, 126-133	3.1	4
61	Solution based, RuHCl(CO)(PPh ₃) ₃ catalyzed hydrosilylation of alkynes onto Si(100) surfaces. <i>Surface Science</i> , 2007 , 601, 2840-2844	1.8	4
60	CO ₂ monitoring by solid-state limiting-current sensors. <i>Sensors and Actuators B: Chemical</i> , 1995 , 25, 636-638	6.38	4
59	Electrical activity of extended defects in polycrystalline silicon. <i>Revue De Physique Appliquée</i> , 1988 , 23, 101-104		4
58	Simultaneous materials and layout optimization of non-imaging optically concentrated solar thermoelectric generators. <i>Energy</i> , 2020 , 194, 116867	7.9	4
57	Suitability of Electrical Coupling in Solar Cell Thermoelectric Hybridization. <i>Designs</i> , 2018 , 2, 32	1.8	4
56	Explicitly Accounting for the Heat Sink Strengths in the Thermal Matching of Thermoelectric Devices. A Unified Practical Approach. <i>Materials Today: Proceedings</i> , 2015 , 2, 474-482	1.4	3
55	Tuning PEDOT:Tos Thermoelectric Properties Through Nanoparticle Inclusion. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 1579-585	1.3	3
54	PdGe contact fabrication on Se-doped Ge. <i>Scripta Materialia</i> , 2017 , 139, 104-107	5.6	3
53	Comparing the IR spectra of H-terminated inner and outer silicon surfaces. <i>Surface and Interface Analysis</i> , 2010 , 42, 1321-1325	1.5	3

52	Metallization of grafted silicon surfaces: Sputtering-related damage effects. <i>Surface Science</i> , 2007 , 601, 2855-2858	1.8	3
51	Morphology changes of Si(0 0 1) surfaces during wet chemical halogenation. <i>Applied Surface Science</i> , 2003 , 212-213, 595-600	6.7	3
50	On the re-oxidation of silicon(0 0 1) surfaces modified by self-assembled monolayers. <i>Applied Surface Science</i> , 2003 , 212-213, 649-653	6.7	3
49	Surface microcharacterization of silicon wafers by the light-beam-induced current technique in the planar configuration and by attenuated total reflection spectroscopy. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2000 , 80, 579-585		3
48	Contribution to the interpretation of the thermodynamic and kinetic behaviour of chlorine gas solid-state potentiometric sensors. <i>Sensors and Actuators B: Chemical</i> , 1992 , 7, 637-641	8.5	3
47	Optical and spectromagnetical properties of phosphate glasses containing ruthenium and titanium ions. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1987 , 83, 705		3
46	On the Influence of the Cottrell Atmosphere on the Recombination Losses at Grain Boundaries in Polycrystalline Silicon. <i>Springer Proceedings in Physics</i> , 1989 , 115-121	0.2	3
45	Hierarchically nanostructured thermoelectric materials: challenges and opportunities for improved power factors. <i>European Physical Journal B</i> , 2020 , 93, 1	1.2	3
44	Economic Convenience of Hybrid Thermoelectric-Photovoltaic Solar Harvesters. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4029-4037	6.1	3
43	Modelling the simultaneous increase of the conductivity and the Seebeck coefficient in highly B-doped nc-Si. <i>Materials Today: Proceedings</i> , 2019 , 8, 706-712	1.4	2
42	Boron Diffusion in Silicon in the Presence of Grain Boundaries and Voids. <i>Materials Today: Proceedings</i> , 2015 , 2, 583-587	1.4	2
41	Hybrid Solar Harvesters: Technological Challenges, Economic Issues, and Perspectives. <i>Springer Series in Materials Science</i> , 2018 , 137-151	0.9	2
40	A Primer on Photovoltaic Generators. <i>Springer Series in Materials Science</i> , 2018 , 63-90	0.9	2
39	Hybrid Photovoltaic-Thermoelectric Generators: Materials Issues. <i>Springer Series in Materials Science</i> , 2018 , 103-116	0.9	2
38	A Primer on Thermoelectric Generators. <i>Springer Series in Materials Science</i> , 2018 , 11-43	0.9	2
37	Solar Thermoelectric Generators. <i>Springer Series in Materials Science</i> , 2018 , 45-61	0.9	2
36	Adsorption equilibria and kinetics of H ₂ at nearly ideal (2×)Si(100) inner surfaces. <i>Surface Science</i> , 2010 , 604, 1215-1220	1.8	2
35	Surface microcharacterization of silicon wafers by the light-beam-induced current technique in the planar configuration and by attenuated total reflection spectroscopy. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2000 , 80, 579-585		2

34	Interfacial issues in the design and making of solid-state chemical sensors. <i>Sensors and Actuators B: Chemical</i> , 1995 , 24, 266-269	8.5	2
33	Recent Advances on Thermoelectric Silicon for Low-Temperature Applications.. <i>Materials</i> , 2022 , 15,	3.5	2
32	Thermodynamic Efficiency, Power Output and Performance Indices of Classic and Nanostructured Thermoelectric Materials. <i>Journal of Nanoengineering and Nanomanufacturing</i> , 2011 , 1, 63-70		2
31	Modeling of aerosol-assisted chemical vapor co-deposition of NiO and carbon nanotubes. <i>European Physical Journal Special Topics</i> , 1999 , 09, Pr8-741-Pr8-747		2
30	Modulation of charge transport properties in poly(3,4-ethylenedioxythiophene) nanocomposites for thermoelectric applications. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 034002	3	2
29	Exceptional thermoelectric power factors in hyperdoped, fully dehydrogenated nanocrystalline silicon thin films. <i>Applied Physics Letters</i> , 2021 , 119, 263903	3.4	2
28	Silicon for Thermoelectric Energy Harvesting Applications. <i>Advanced Micro & Nanosystems</i> , 2017 , 55-91		1
27	Monte Carlo study of the Electron Transport Properties of an Array of Si Nanocrystals. <i>Materials Today: Proceedings</i> , 2015 , 2, 491-496	1.4	1
26	PdGe contact fabrication on Ga-doped Ge: Influence of implantation-mediated defects. <i>Scripta Materialia</i> , 2018 , 150, 66-69	5.6	1
25	Effect of Nanocavities on the Thermoelectric Properties of Polycrystalline Silicon. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1329, 1		1
24	Thermoelectric Properties of p and n-type Nanocrystalline Silicon Nanowires with High Doping Levels. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1408, 67		1
23	Using evidence from nanocavities to assess the vibrational properties of external surfaces. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 104005	1.8	1
22	A tool for the spectroscopic investigation of hydrogen-silicon interaction. <i>Surface and Interface Analysis</i> , 2010 , 42, 1307-1310	1.5	1
21	Dynamic barrier height modulation analysis of metal-insulator-semiconductor junctions built on silicon surfaces modified by covalent organic layers. <i>Surface Science</i> , 2007 , 601, 2845-2849	1.8	1
20	Interaction of Small Molecules with Silicon Surfaces. <i>Solid State Phenomena</i> , 2001 , 85-86, 337-352	0.4	1
19	Preparation, Micromorphology and Stability of Tin Dioxide Thin Films. <i>Solid State Phenomena</i> , 1996 , 51-52, 435-440	0.4	1
18	Electron spin resonance investigation of the electronic structure of hopping centres and the polaronic conduction in iron-containing phosphate glasses. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1989 , 85, 4099		1
17	Hybrid Photovoltaic-Thermoelectric Solar Cells: State of the Art and Challenges 2017 , 139-181		1

16	Litho-to-Nano Link 2008 , 1890-1900		1
15	A Monte Carlo Study on the Effect of Energy Barriers on the Thermoelectric Properties of Si. <i>Energy Harvesting and Systems</i> , 2016 , 3, 323-328	4.4	1
14	Hybrid Photovoltaic/Thermoelectric Generators: Theory of Operation. <i>Springer Series in Materials Science</i> , 2018 , 91-102	0.9	0
13	A Special Section on Thermoelectrics. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 1543-1546	1.3	
12	Biased Diffusion and Rectified Brownian Motion at the Nanoscale Driving Mobile Sensing Automata for the Early Diagnosis of Endogenous Diseases 2012 , 1-25		
11	Nano and Giga Challenges in Electronics Photonics and Renewable Energy (NGC2011) Moscow-Zelenograd, Russia, September 12-16, 2011. <i>Nanoscale Research Letters</i> , 2012 , 7, 326	5	
10	Sputter-induced trap states at oxidized and grafted silicon surfaces: A comparative study. <i>Thin Solid Films</i> , 2009 , 517, 1944-1948	2.2	
9	Final evidence for H termination of HF-treated Si surfaces: a comparative study by high-energy and vibrational spectroscopies. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000 , 73, 240-243	3.1	
8	Stereochemical random networks. A contribution to a structurally aware hopping theory in oxide glasses. <i>Journal of Non-Crystalline Solids</i> , 1995 , 181, 251-260	3.9	
7	Modelling of Specular Reflection Infrared Spectra of Oxide Films for Microstructural Analysis. <i>Solid State Phenomena</i> , 1996 , 51-52, 289-294	0.4	
6	Electrical Behavior of Diffused Impurities in Diamond Single Crystals. <i>Materials Research Society Symposia Proceedings</i> , 1989 , 162, 365		
5	Temperature-dependent activation energy for polaronic conduction in copper-doped zinc phosphate glasses. <i>Physica Scripta</i> , 1988 , 38, 92-99	2.6	
4	Nanosilicon and thermoelectricity 2017 , 555-574		
3	Nanosilicon and thermoelectricity. <i>Series in Materials Science and Engineering</i> , 2017 , 555-574		
2	Effect of the Annealing on the Low-Temperature Charge Transport Properties of Heavily Boron-Doped Nanocrystalline Silicon Films for Thermoelectric Applications. <i>Energy Harvesting and Systems</i> , 2016 , 3, 329-333	4.4	
1	Photovoltaic/Thermoelectric/Thermodynamic Co-Generation. <i>Springer Series in Materials Science</i> , 2018 , 117-136	0.9	