

# Tatiana Perova

## List of Publications by Year in descending order

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205  
papers

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docs citations

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times ranked

4067  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrospun Fibres of Chitosan/PVP for the Effective Chemotherapeutic Drug Delivery of 5-Fluorouracil. <i>Chemosensors</i> , 2021, 9, 70.	1.8	40
2	Concentration-Dependent Fluorescence Emission of Quercetin. <i>Chemosensors</i> , 2021, 9, 315.	1.8	7
3	Reactive Plasma N-Doping of Amorphous Carbon Electrodes: Decoupling Disorder and Chemical Effects on Capacitive and Electrocatalytic Performance. <i>Frontiers in Chemistry</i> , 2020, 8, 593932.	1.8	4
4	Accounting for the Local Field When Determining the Dielectric Loss Spectra of Metals in the Region of the Frequencies of Volume, Surface and Localized Plasmon Oscillations. <i>Materials</i> , 2020, 13, 631.	1.3	2
5	Enhanced FTIR Spectroscopy of Biological Liquid Samples Confined Between Ge Hemispherical ATR Element and Al Coated Glass Substrate. <i>Biomedical Journal of Scientific &amp; Technical Research</i> , 2020, 24, .	0.0	0
6	Investigation of AgInS <sub>2</sub> /ZnS Quantum Dots by Magnetic Circular Dichroism Spectroscopy. <i>Materials</i> , 2019, 12, 3616.	1.3	15
7	Capacitive storage at nitrogen doped amorphous carbon electrodes: structural and chemical effects of nitrogen incorporation. <i>RSC Advances</i> , 2019, 9, 4063-4071.	1.7	15
8	Untangling Cooperative Effects of Pyridinic and Graphitic Nitrogen Sites at Metal-Free N-Doped Carbon Electrocatalysts for the Oxygen Reduction Reaction. <i>Small</i> , 2019, 15, e1902081.	5.2	57
9	Electrocatalysis of N-doped carbons in the oxygen reduction reaction as a function of pH: N-sites and scaffold effects. <i>Carbon</i> , 2019, 148, 224-230.	5.4	32
10	Influence of the Local Field and Dipole-Dipole Interactions on the Spectral Characteristics of Simple Metals and Their Nanoparticles. <i>Plasmonics</i> , 2019, 14, 1443-1451.	1.8	1
11	Adaptable surfactant-mediated method for the preparation of anisotropic metal chalcogenide nanomaterials. <i>Scientific Reports</i> , 2018, 8, 2860.	1.6	24
12	Induction of Chirality in Two-Dimensional Nanomaterials: Chiral 2D MoS <sub>2</sub> Nanostructures. <i>ACS Nano</i> , 2018, 12, 954-964.	7.3	93
13	Continuous Flow Synthesis of Platinum Nanoparticles in Porous Carbon as Durable and Methanol-Tolerant Electrocatalysts for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2018, 5, 62-70.	1.7	18
14	One-Dimensional Multi-Channel Photonic Crystal Resonators Based on Silicon-On-Insulator With High Quality Factor. <i>Frontiers in Physics</i> , 2018, 6, .	1.0	16
15	Experimental and Computational Study of Dopamine as an Electrochemical Probe of the Surface Nanostructure of Graphitized N-Doped Carbon. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20763-20773.	1.5	33
16	Double-cavity Fabry-Perot resonators based on one-dimensional silicon photonic crystals. <i>AIP Conference Proceedings</i> , 2018, .	0.3	0
17	Cytotoxicity control of silicon nanoparticles by biopolymer coating and ultrasound irradiation for cancer theranostic applications. <i>Nanotechnology</i> , 2017, 28, 105102.	1.3	51
18	Dynamic in-situ sensing of fluid-dispersed 2D materials integrated on microfluidic Si chip. <i>Scientific Reports</i> , 2017, 7, 42120.	1.6	15

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19	Features of polarized Raman spectra for homogeneous and non-homogeneous compressively strained Ge <sub>1-x</sub> Sn <sub>x</sub> alloys. Journal of Raman Spectroscopy, 2017, 48, 993-1001.	1.2	17
20	Graphene oxide reinforced high surface area silica aerogels. Journal of Non-Crystalline Solids, 2017, 465, 31-38.	1.5	43
21	Investigations into the electrochemical etching process of p-type silicon using ethanol-surfactant solutions. AIP Conference Proceedings, 2017, , .	0.3	0
22	Observation of the de Vries behavior in SmA* phase of a liquid crystal using polarised Raman scattering and infrared spectroscopy. Journal of Chemical Physics, 2017, 147, 094903.	1.2	9
23	Chiral smectic- $A$ and smectic- $C$ phases with de Vries characteristics. Physical Review E, 2017, 95, 062704.	0.8	16
24	Borosilicate glass nanolayer as a spin-on dopant source: FTIR and spectroscopic ellipsometry investigations. Journal of Materials Science: Materials in Electronics, 2016, 27, 6292-6304.	1.1	8
25	Polarized Raman Spectroscopy and Chemometric Analysis of Micro-crystalline Silicon for Solar Cells. MATEC Web of Conferences, 2015, 26, 01011.	0.1	0
26	Optical Spectra of Composite One-Dimensional Photonic Crystals With Extended Stop Bands Based on a Si-Air Structure. Journal of Lightwave Technology, 2015, 33, 3577-3583.	2.7	2
27	Effect of diode-diode interactions on the characteristics of the absorption spectra of granular films and colloidal suspensions of gold and silver nanoparticles. Journal of Optical Technology (A) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T		
28	Influence of intermolecular interactions on spectroscopic characteristics of metal nanoparticles and their composites. Physical Chemistry Chemical Physics, 2014, 16, 24536-24548.	1.3	6
29	Level Anticrossing of Impurity States in Semiconductor Nanocrystals. Scientific Reports, 2014, 4, 6917.	1.6	23
30	Tunable Microcavity Based on Macroporous Silicon: Feasibility of Fabrication. Journal of Lightwave Technology, 2013, 31, 2694-2700.	2.7	1
31	Influence of the buffer layer properties on the intensity of Raman scattering of graphene. Journal of Raman Spectroscopy, 2013, 44, 803-809.	1.2	17
32	Surface Tamm states in a photonic crystal slab with asymmetric termination. Physica Status Solidi - Rapid Research Letters, 2013, 7, 481-484.	1.2	4
33	Polarization anisotropy of photoluminescence from triphenylamine-based molecular single crystals. Crystal Research and Technology, 2013, 48, 1039-1043.	0.6	2
34	THE INFLUENCE OF LIGHT BEAM CONVERGENCE ON THE STOP-BANDS OF A ONE-DIMENSIONAL PHOTONIC CRYSTAL. Progress in Electromagnetics Research, 2013, 140, 369-384.	1.6	3
35	Characterization of Rapid Melt Growth (RMG) Process for High Quality Thin Film Germanium on Insulator. ECS Transactions, 2012, 45, 169-180.	0.3	2
36	Enhancement of photoluminescence signal from ultrathin layers with silicon nanocrystals. Applied Physics Letters, 2012, 100, 061908.	1.5	15

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37	Fine tunable multi-cavity Si photonic crystal filters. Proceedings of SPIE, 2012, , .	0.8	0
38	Surface states in the optical spectra of two-dimensional photonic crystals with various surface terminations. Physical Review B, 2012, 86, .	1.1	30
39	Multi-channel Si-liquid crystal filter with fine tuning capability of individual channels for compensation of fabrication tolerances. Nanoscale Research Letters, 2012, 7, 387.	3.1	6
40	INFLUENCE OF FLUCTUATIONS OF THE GEOMETRICAL PARAMETERS ON THE PHOTONIC BAND GAPS IN ONE-DIMENSIONAL PHOTONIC CRYSTALS. Progress in Electromagnetics Research, 2012, 126, 285-302.	1.6	12
41	ELECTRICALLY TUNABLE FABRY-PEROT RESONATOR BASED ON MICROSTRUCTURED SI CONTAINING LIQUID CRYSTAL. Progress in Electromagnetics Research, 2012, 122, 293-309.	1.6	15
42	Investigation of stress and structural damage in H and He implanted Ge using micro-Raman mapping technique on bevelled samples. Journal of Raman Spectroscopy, 2012, 43, 448-454.	1.2	7
43	Resonance Enhancement of Raman Scattering from One-Dimensional Periodical Structures of Porous Silicon. Journal of Nanoelectronics and Optoelectronics, 2012, 7, 591-595.	0.1	1
44	Reversal and pinning of Curie point transformations in thin film piezoelectrics. CrystEngComm, 2011, 13, 1280-1282.	1.3	1
45	Formation of Infrared Regions of Transparency in One-Dimensional Silicon Photonic Crystals. IEEE Photonics Technology Letters, 2011, 23, 200-202.	1.3	7
46	Transformation of one-dimensional silicon photonic crystal into Fabry-Perot resonator. , 2011, , .		1
47	Silicon photonic crystal filter with ultrawide passband characteristics. Optics Letters, 2011, 36, 1854.	1.7	23
48	Bcl-2 SNP rs956572 associates with disrupted intracellular calcium homeostasis in bipolar I disorder. Bipolar Disorders, 2011, 13, 41-51.	1.1	45
49	Optical properties of grooved silicon microstructures: Theory and experiment. Journal of Experimental and Theoretical Physics, 2011, 113, 80-85.	0.2	7
50	Fabrication technology of heterojunctions in the lattice of a 2D photonic crystal based on macroporous silicon. Semiconductors, 2011, 45, 1103-1110.	0.2	15
51	Design of three-component one-dimensional photonic crystals with tuning of optical contrast and regions of transparency. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1961-1965.	0.8	2
52	All-optically tunable waveform synthesis by a silicon nanowaveguide ring resonator coupled with a photonic-crystal fiber frequency shifter. Optics Communications, 2011, 284, 1652-1655.	1.0	6
53	Characterisation of thin film silicon films deposited by plasma enhanced chemical vapour deposition at 162MHz, using a large area, scalable, multi-tile-electrode plasma source. Thin Solid Films, 2011, 519, 6884-6886.	0.8	22
54	Composition and strain in thin Si <sub>1-x</sub> Ge <sub>x</sub> virtual substrates measured by micro-Raman spectroscopy and x-ray diffraction. Journal of Applied Physics, 2011, 109, .	1.1	68

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55	Micro-Raman and Spreading Resistance Analysis on Beveled Implanted Germanium for Layer Transfer Applications. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, H69.	2.2	5
56	Design, fabrication, and optical characterization of multicomponent photonic crystals for integrated silicon microphotronics. , 2011, , .		1
57	Optical spectra of two-dimensional photonic crystal bars based on macroporous Si. , 2011, , .		2
58	Fabrication of one-dimensional photonic crystals by photoelectrochemical etching of silicon. <i>Semiconductors</i> , 2010, 44, 954-961.	0.2	2
59	A study of raman and rutherford backscattering spectra of amorphous carbon films modified with platinum. <i>Semiconductors</i> , 2010, 44, 1074-1079.	0.2	0
60	One-dimensional photonic crystal fabricated by the photochemical etching of silicon. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2010, 74, 65-68.	0.1	0
61	Optical properties of one-dimensional photonic crystals fabricated by photo-electrochemical etching of silicon. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 98, 571-581.	1.1	16
62	Micro-Raman Mapping of 3C-SiC Thin Films Grown by Solid-Phase Gas Phase Epitaxy on Si (111). <i>Nanoscale Research Letters</i> , 2010, 5, 1507-1511.	3.1	35
63	Determination of substitutional carbon content in rapid thermal chemical vapour deposited Si <sub>1-x</sub> Ge <sub>x</sub> on Si (1 0 0) using Raman spectroscopy. <i>Thin Solid Films</i> , 2010, 518, S151-S153.	0.8	1
64	Functionalization of single-walled carbon nanotubes with optically switchable spiropyrans. <i>Carbon</i> , 2010, 48, 2815-2824.	5.4	51
65	Raman and Fourier transform infrared study of substitutional carbon incorporation in rapid thermal chemical vapor deposited Si <sub>1-x</sub> Ge <sub>x</sub> on (1 0 0) Si. <i>Journal of Applied Physics</i> , 2010, 107, 023518.	1.1	7
66	Design of three-component one-dimensional photonic crystals for alteration of optical contrast and omni-directional reflection. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1
67	Design, fabrication, and optical characterization of Fabry-Pérot tunable resonator based on microstructured Si and liquid crystal. <i>Proceedings of SPIE</i> , 2010, , .	0.8	2
68	Size Effect on the Infrared Spectra of Condensed Media under Conditions of 1D, 2D, and 3D Dielectric Confinement. <i>Journal of Physical Chemistry C</i> , 2010, 114, 16071-16081.	1.5	13
69	Dissociative CdSe/ZnS quantum dot-molecule complex for luminescent sensing of metal ions in aqueous solutions. <i>Journal of Applied Physics</i> , 2010, 108, 074306.	1.1	14
70	Optical Contrast Tuning in Three-Component One-Dimensional Photonic Crystals. <i>Journal of Lightwave Technology</i> , 2010, 28, 1521-1529.	2.7	11
71	Electron-electron scattering in a double quantum dot: Effective mass approach. <i>Journal of Chemical Physics</i> , 2010, 133, 104704.	1.2	13
72	Double quantum dot photoluminescence mediated by incoherent reversible energy transport. <i>Physical Review B</i> , 2010, 81, .	1.1	19

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73	Ultraviolet and visible Raman analysis of thin a-C films grown by filtered cathodic arc deposition. <i>Diamond and Related Materials</i> , 2010, 19, 514-517.	1.8	11
74	Investigation of tetrazine functionalised single walled carbon nanotubes. <i>Plastics, Rubber and Composites</i> , 2009, 38, 253-256.	0.9	6
75	Optical characteristics of a one-dimensional photonic crystal with an additional regular layer. <i>Proceedings of SPIE</i> , 2009, , .	0.8	8
76	Numerical methods for calculation of optical properties of layered structures. <i>Proceedings of SPIE</i> , 2009, , .	0.8	11
77	Micro-Raman investigation of stress distribution in laser drilled via structures. <i>Applied Surface Science</i> , 2009, 255, 5546-5548.	3.1	9
78	Photo-electrochemical etching of macro-pores in silicon with grooves as etch seeds. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 1235-1239.	0.8	12
79	Enhanced Raman scattering in grooved silicon matrix. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 173-176.	0.7	11
80	Functionalisation of silicon surfaces using tetrazine functionalities. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 1740-1744.	0.8	4
81	In situ micro-Raman analysis and X-ray diffraction of nickel silicide thin films on silicon. <i>Micron</i> , 2009, 40, 89-93.	1.1	37
82	Elaboration of the gap-map method for the design and analysis of one-dimensional photonic crystal structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 1122-1126.	1.3	16
83	Direct evidence of the dielectric confinement effect in the infrared spectra of organic liquids. <i>Chemical Physics Letters</i> , 2009, 479, 81-85.	1.2	3
84	Microstructural investigation supporting an abrupt stress induced transformation in amorphous carbon films. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	20
85	Optical study of platinum-modified amorphous carbon. <i>Semiconductors</i> , 2009, 43, 915-920.	0.2	8
86	In situ investigation of thermally influenced phase transformations in $(\text{Pb}_{0.92}\text{Sr}_{0.08}) (\text{Zr}_{0.65}\text{Ti}_{0.35})\text{O}_3$ thin films using micro-Raman spectroscopy and x-ray diffraction. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 241-245.	1.7	1
87	Strain, composition and crystalline perfection in thin SiGe layers studied by Raman spectroscopy. <i>Thin Solid Films</i> , 2008, 517, 265-268.	0.8	7
88	Thermo-tunable defect mode in one dimensional photonic structure based on grooved silicon and liquid crystal. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008, 2, 114-116.	1.2	8
89	Resonant energy transfer in quantum dots: Frequency-domain luminescent spectroscopy. <i>Physical Review B</i> , 2008, 78, .	1.1	34
90	Stain etching of micro-machined silicon structures. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 025019.	1.5	12

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91	Tip-enhanced secondary emission of a semiconductor quantum dot. <i>Physical Review B</i> , 2008, 77, .	1.1	2
92	Design of one-dimensional photonic crystals using combination of band diagram and photonic gap map approaches. <i>Journal of Applied Physics</i> , 2008, 104, 033536.	1.1	17
93	Electro-tuning of the photonic band gap in SOI-based structures infiltrated with liquid crystal. <i>Proceedings of SPIE</i> , 2008, , .	0.8	3
94	ELECTRO-OPTICAL EFFECT IN COMPOSITE PHOTONIC STRUCTURES BASED ON GROOVED SILICON AND LIQUID CRYSTAL. <i>International Journal of Nanoscience</i> , 2007, 06, 179-185.	0.4	0
95	Orientalional Effects in Ferroelectric and Antiferroelectric Liquid Crystals using Infrared Spectroscopy. <i>Advances in Chemical Physics</i> , 2007, , 203-269.	0.3	10
96	MicroRaman spectroscopy of protective coatings deposited onto C/Câ€“SiC composites. <i>Materials Science and Technology</i> , 2007, 23, 1300-1304.	0.8	4
97	Investigation on patterned structures formed on p-type silicon and its morphological dependence on current density. <i>Materials Science and Technology</i> , 2007, 23, 471-474.	0.8	0
98	Quantum dot energy relaxation mediated by plasmon emission in doped covalent semiconductor heterostructures. <i>Physical Review B</i> , 2007, 76, .	1.1	19
99	Structure and Orientation of Molecules in Discotic Liquid Crystals Using Infrared Spectroscopy. <i>Advances in Chemical Physics</i> , 2007, , 341-486.	0.3	4
100	TUNABLE 1D PHOTONIC CRYSTAL STRUCTURE BASED ON GROOVED Si INFILTRATED WITH LIQUID CRYSTAL E7. <i>International Journal of Nanoscience</i> , 2007, 06, 333-337.	0.4	1
101	Far-Infrared and Low-Frequency Raman Spectra of Condensed Media. <i>Advances in Chemical Physics</i> , 2007, , 427-482.	0.3	16
102	New optical cylindrical microresonators. <i>Proceedings of SPIE</i> , 2007, , .	0.8	0
103	Amplified spontaneous emission from a microtube cavity with whispering gallery modes. <i>Proceedings of SPIE</i> , 2007, , .	0.8	0
104	Spontaneous emission enhancement in a microtube cavity with highly confined optical modes. , 2007, , .		1
105	Tunable photonic structures based on silicon and liquid crystals. <i>Proceedings of SPIE</i> , 2007, , .	0.8	6
106	A Simple Solâ”Gel Processing for the Development of High-Temperature Stable Photoactive Anatase Titania. <i>Chemistry of Materials</i> , 2007, 19, 4474-4481.	3.2	122
107	Electrotunable in-plane one-dimensional photonic structure based on silicon and liquid crystal. <i>Applied Physics Letters</i> , 2007, 90, 011908.	1.5	30
108	The Fabrication, Fluorescence Dynamics, and Whispering Gallery Modes of Aluminosilicate Microtube Resonators. <i>Advanced Functional Materials</i> , 2007, 17, 1106-1114.	7.8	15

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109	Chemical modification of multi-walled carbon nanotubes using a tetrazine derivative. <i>Chemical Physics Letters</i> , 2007, 435, 84-89.	1.2	34
110	Whispering gallery modes from CVD diamond spherical-like particles. <i>Optical Materials</i> , 2007, 29, 983-986.	1.7	3
111	Tunable one-dimensional photonic crystal structures based on grooved Si infiltrated with liquid crystal E7. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 1961-1965.	0.8	12
112	Whispering gallery mode emission from microtube cavity. <i>Optics and Spectroscopy (English)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	0.2	4
113	Enhancement of the Raman scattering in grooved silicon structures. <i>Semiconductors</i> , 2007, 41, 970-972.	0.2	4
114	Reinforcement of poly(vinyl chloride) and polystyrene using chlorinated polypropylene grafted carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2006, 16, 4206.	6.7	90
115	Effect of prior C, Si and Sn implantation on the etch rate of CVD diamond. <i>Diamond and Related Materials</i> , 2006, 15, 1266-1270.	1.8	1
116	Whispering Gallery Mode Emission from Photonic Microtubes. , 2006, , .		0
117	Dendrite-Like Self-Assembly of Magnetite Nanoparticles on Porous Silicon. <i>Small</i> , 2006, 2, 864-869.	5.2	25
118	Extension of photonic band gaps in one-dimensional photonic crystals. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2006, 101, 791-796.	0.2	2
119	Stress determination in strained-Si grown on ultra-thin SiGe virtual substrates. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006, 135, 192-194.	1.7	8
120	Experimental evidence of photonic band gap extension for disordered 1D photonic crystals based on Si. <i>Optics Communications</i> , 2006, 259, 104-106.	1.0	23
121	Electro-tunable one-dimensional photonic crystal structures based on grooved silicon infiltrated with liquid crystal. <i>Journal of Luminescence</i> , 2006, 121, 298-300.	1.5	10
122	Investigation of alumina-silica films deposited by pulsed injection metal-organic chemical vapour deposition. <i>Thin Solid Films</i> , 2006, 515, 1830-1834.	0.8	6
123	Infrared and submillimeter spectroscopy of grooved silicon structures. <i>Semiconductors</i> , 2006, 40, 834-838.	0.2	2
124	Investigation into the orientation of the liquid-crystal mixture E7 in composite photonic crystals based on single-crystal silicon. <i>Physics of the Solid State</i> , 2006, 48, 384-391.	0.2	1
125	Controlled Self-Assembly of Nanocrystals into Polycrystalline Fluorescent Dendrites with Energy-Transfer Properties. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2048-2052.	7.2	66
126	Confined optical modes and amplified spontaneous emission from a microtube cavity formed by vacuum assisted filtration. <i>Applied Physics Letters</i> , 2006, 89, 143113.	1.5	8



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127	Design of one-dimensional composite photonic crystals with an extended photonic band gap. Journal of Applied Physics, 2006, 99, 033507.	1.1	17
128	Analysis of strain and intermixing in single-layer Ge <sup>133</sup> Si quantum dots using polarized Raman spectroscopy. Physical Review B, 2006, 73, .	1.1	64
129	Extension of photonic band gaps in one-dimensional photonic crystals. , 2006, 101, 791.		1
130	Optical properties of diamond films grown by MPCVD method with alternating nanodiamond injection. , 2005, , .		8
131	Optical characteristics of ordinary and tunable 1D Si photonic crystals in the mid-infrared range. , 2005, 5825, 85.		2
132	Alignment of liquid crystal E7 in composite photonic crystals based on single crystal silicon. , 2005, 5825, 400.		2
133	Phase coherence theory for data-mining and analysis: application studies in spectroscopy. , 2005, , .		0
134	Broad band infrared spectroscopy of grooved silicon. , 2005, , .		0
135	Investigations on europium doped alumino-silicate xerogel incorporated in micro-channel glass and porous silicon. , 2005, , .		0
136	Spectroscopic characteristics of nanocomposite structures in 3D, 2D, and 1D size confinements. , 2005, 5826, 387.		4
137	Characterisation of virtual substrates with ultra-thin Si <sub>0.6</sub> Ge <sub>0.4</sub> strain relaxed buffers. Materials Science in Semiconductor Processing, 2005, 8, 149-153.	1.9	13
138	1D photonic crystal fabricated by wet etching of silicon. Optical Materials, 2005, 27, 831-835.	1.7	55
139	Polarized infrared and Raman spectroscopy studies of the liquid crystal E7 alignment in composites based on grooved silicon. Semiconductors, 2005, 39, 759-767.	0.2	9
140	Stripes of 2D photonic crystal obtained from macroporous silicon. Optical Materials, 2005, 27, 827-830.	1.7	4
141	Silica micro tubes formed during the patterning of oxidized macroporous silicon. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 3213-3217.	0.8	7
142	Design and fabrication of the periodical structures based on grooved Si for middle infrared microphotronics. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 3288-3292.	0.8	7
143	Porous silicon - rare earth doped xerogel and glass composites. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 1693-1697.	0.8	4
144	Magnetic nanoparticles - porous silicon composite material. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 1698-1702.	0.8	4

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145	Strained Silicon on Ultrathin Silicon-Germanium Virtual Substrates. Solid State Phenomena, 2005, 108-109, 463-468.	0.3	4
146	Effect of the Internal Field on the IR Absorption Spectra of Small Particles in the Case of 3D, 2D, and 1D Size Confinement. Journal of Physical Chemistry B, 2005, 109, 9885-9891.	1.2	9
147	Method of construction of composite one-dimensional photonic crystal with extended photonic band gaps. Optics Express, 2005, 13, 8433.	1.7	31
148	Spectroscopical analysis of strained silicon quantum wells. , 2005, , .		0
149	Quartz microtubes based on macroporous silicon. Semiconductors, 2004, 38, 1084-1087.	0.2	10
150	Technique for patterning macroporous silicon and the fabrication of bars of 2D photonic crystals with vertical walls. Semiconductors, 2004, 38, 1088-1091.	0.2	10
151	Polarized Raman Spectroscopy of Single Layer and Multilayer Ge/Si(001) Quantum Dot Heterostructures. NATO Science Series Series II, Mathematics, Physics and Chemistry, 2004, , 139-152.	0.1	0
152	Polarized Raman spectroscopy of multilayer Ge <sup>+</sup> Si(001) quantum dot heterostructures. Journal of Applied Physics, 2004, 96, 2857-2863.	1.1	23
153	Morphology of macro-pores formed by electrochemical etching of p-type Si. Journal of Micromechanics and Microengineering, 2004, 14, 1022-1028.	1.5	26
154	Composition and stress analysis in Si structures using micro-Raman spectroscopy. Scanning, 2004, 26, 235-239.	0.7	23
155	1D Periodic Structures Obtained by Deep Anisotropic Etching of Silicon. NATO Science Series Series II, Mathematics, Physics and Chemistry, 2004, , 205-212.	0.1	0
156	Title is missing!. Journal of Materials Science: Materials in Electronics, 2003, 14, 441-444.	1.1	7
157	Determination of SF6 reactive ion etching end point of the SiO2/Si system by plasma impedance monitoring. Microelectronic Engineering, 2003, 65, 25-46.	1.1	19
158	Chemical modification of silicon surfaces with ferrocene functionalities. Physica Status Solidi A, 2003, 197, 492-496.	1.7	11
159	Vertically etched silicon as 1D photonic crystal. Physica Status Solidi A, 2003, 197, 544-548.	1.7	35
160	IR birefringence in artificial crystal fabricated by anisotropic etching of silicon. Semiconductors, 2003, 37, 399-403.	0.2	6
161	Design criteria and optical characteristics of one-dimensional photonic crystals based on periodically grooved silicon. Applied Optics, 2003, 42, 5679.	2.1	30
162	Effect of ZnS shell thickness on the phonon spectra in CdSe quantum dots. Physical Review B, 2003, 68, .	1.1	227

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163	Whispering gallery mode emission from a composite system of CdTe nanocrystals and a spherical microcavity. <i>Semiconductor Science and Technology</i> , 2003, 18, 914-918.	1.0	69
164	Order Parameter, Alignment and Anchoring Transition in Discotic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 397, 231-244.	0.4	30
165	Study of structure and quality of different silicon oxides using FTIR and Raman microscopy. , 2003, , .		19
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