

# Clivia M Sotomayor Torres

## List of Publications by Year in descending order

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515  
papers

12,611  
citations

30070

54  
h-index

43889

91  
g-index

531  
all docs

531  
docs citations

531  
times ranked

11972  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heat dissipation in few-layer MoS <sub>2</sub> and MoS <sub>2</sub> /hBN heterostructure. 2D Materials, 2022, 9, 015005.	4.4	6
2	Thermal Properties of Nanocrystalline Silicon Nanobeams. Advanced Functional Materials, 2022, 32, .	14.9	5
3	Unraveling Heat Transport and Dissipation in Suspended MoSe <sub>2</sub> from Bulk to Monolayer. Advanced Materials, 2022, 34, e2108352.	21.0	12
4	Highly Scattering Cellulose-Based Films for Radiative Cooling. Advanced Science, 2022, 9, e2104758.	11.2	63
5	Room-Temperature Silicon Platform for GHz-Frequency Nanoelectro-Opto-Mechanical Systems. ACS Photonics, 2022, 9, 413-419.	6.6	13
6	Introducing surface functionality on thermoformed polymeric films. Micro and Nano Engineering, 2022, 14, 100112.	2.9	2
7	Optomechanical Modulation Spectroscopy of Bound States in the Continuum in a Dielectric Metasurface. Physical Review Applied, 2022, 17, .	3.8	6
8	Spectroscopic and Thermal Characterization of Extra Virgin Olive Oil Adulterated with Edible Oils. Foods, 2022, 11, 1304.	4.3	7
9	Effect of crystallinity and thickness on thermal transport in layered PtSe <sub>2</sub> . Npj 2D Materials and Applications, 2022, 6, .	7.9	12
10	Thermal Rectification and Thermal Logic Gates in Graded Alloy Semiconductors. Energies, 2022, 15, 4685.	3.1	4
11	Layered Nanocomposite 2D-TiO <sub>2</sub> with Cu <sub>2</sub> O Nanoparticles as an Efficient Photocatalyst for 4-Chlorophenol Degradation and Hydrogen Evolution. Topics in Catalysis, 2021, 64, 167-180.	2.8	12
12	Heat Transport Control and Thermal Characterization of Low-Dimensional Materials: A Review. Nanomaterials, 2021, 11, 175.	4.1	20
13	Electron beam lithography for direct patterning of MoS <sub>2</sub> on PDMS substrates. RSC Advances, 2021, 11, 19908-19913.	3.6	5
14	Brillouin Detection of a Complete GHz Mechanical Band Gap. , 2021, , .		0
15	Quantifying thermal transport in buried semiconductor nanostructures via cross-sectional scanning thermal microscopy. Nanoscale, 2021, 13, 10829-10836.	5.6	12
16	Antibacterial activity testing methods for hydrophobic patterned surfaces. Scientific Reports, 2021, 11, 6675.	3.3	26
17	Bottom-Up Development of Nanoimprinted PLLA Composite Films with Enhanced Antibacterial Properties for Smart Packaging Applications. Macromol, 2021, 1, 49-63.	4.4	18
18	Optomechanical crystals for spatial sensing of submicron sized particles. Scientific Reports, 2021, 11, 7829.	3.3	8

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19	Reversing the Humidity Response of MoS <sub>2</sub> - and WS <sub>2</sub> -Based Sensors Using Transition-Metal Salts. ACS Applied Materials & Interfaces, 2021, 13, 23201-23209.	8.0	8
20	Simulations of micro-sphere/shell 2D silica photonic crystals for radiative cooling. Optics Express, 2021, 29, 16857.	3.4	11
21	Fabrication and characterization of large-area suspended MoSe <sub>2</sub> crystals down to the monolayer. JPhys Materials, 2021, 4, 046001.	4.2	8
22	Construction of 0D/2D composites heterostructured of CdTe QDs/ZnO hybrid layers to improve environmental remediation by a direct Z-scheme. Catalysis Communications, 2021, 159, 106352.	3.3	7
23	Injection locking in an optomechanical coherent phonon source. Nanophotonics, 2021, 10, 1319-1327.	6.0	12
24	Quantifying the Robustness of Topological Slow Light. Physical Review Letters, 2021, 126, 027403.	7.8	54
25	Impact of surface topography on the bacterial attachment to micro- and nano-patterned polymer films. Surfaces and Interfaces, 2021, 27, 101494.	3.0	18
26	Anisotropic Thermal Conductivity of Crystalline Layered SnSe <sub>2</sub> . Nano Letters, 2021, 21, 9172-9179.	9.1	19
27	Graphene related materials for thermal management. 2D Materials, 2020, 7, 012001.	4.4	161
28	2D Phononic Crystals: Progress and Prospects in Hypersound and Thermal Transport Engineering. Advanced Functional Materials, 2020, 30, 1904434.	14.9	43
29	Nanoscale Mapping of Thermal and Mechanical Properties of Bare and Metal-Covered Self-Assembled Block Copolymer Thin Films. ACS Applied Polymer Materials, 2020, 2, 487-496.	4.4	12
30	Ion bombardment induced formation of self-organized wafer-scale GaInP nanopillar assemblies. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2020, 38, 012801.	1.2	1
31	Thermoreflectance techniques and Raman thermometry for thermal property characterization of nanostructures. Journal of Applied Physics, 2020, 128, .	2.5	44
32	High-Frequency Mechanical Excitation of a Silicon Nanostring with Piezoelectric Aluminum Nitride Layers. Physical Review Applied, 2020, 14, .	3.8	9
33	High-temperature silicon thermal diode and switch. Nano Energy, 2020, 78, 105261.	16.0	42
34	Large thermoelectric power variations in epitaxial thin films of layered perovskite GdBaCo <sub>2</sub> O <sub>5.5±<math>\delta</math></sub> with a different preferred orientation and strain. Journal of Materials Chemistry A, 2020, 8, 19975-19983.	10.3	5
35	Real-time Optical Dimensional Metrology via Diffractometry for Nanofabrication. Scientific Reports, 2020, 10, 5371.	3.3	4
36	Broadband Dynamic Polarization Conversion in Optomechanical Metasurfaces. Frontiers in Physics, 2020, 7, .	2.1	2

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37	Fracturing of Polycrystalline MoS <sub>2</sub> Nanofilms. ACS Applied Electronic Materials, 2020, 2, 1169-1175.	4.3	10
38	Enhancement of Thermal Boundary Conductance of Metal-Polymer System. Nanomaterials, 2020, 10, 670.	4.1	20
39	Ferromagnetic Resonance Assisted Optomechanical Magnetometer. Physical Review Letters, 2020, 125, 147201.	7.8	23
40	Properties of nanocrystalline silicon probed by optomechanics. Nanophotonics, 2020, 9, 4819-4829.	6.0	4
41	Thermal transport in nanoporous holey silicon membranes investigated with optically induced transient thermal gratings. Journal of Applied Physics, 2020, 128, .	2.5	6
42	A frequency-domain thermoreflectance method for measuring the thermal boundary conductance of a metal-polymer system. , 2020, , .		0
43	Enhanced thermoelectric properties of lightly Nb doped SrTiO <sub>3</sub> thin films. Nanoscale Advances, 2019, 1, 3647-3653.	4.6	9
44	Heterostructured 2D ZnO hybrid nanocomposites sensitized with cubic Cu <sub>2</sub> O nanoparticles for sunlight photocatalysis. Journal of Materials Science, 2019, 54, 13523-13536.	3.7	20
45	Nanowire forest of pnictogen chalcogenide alloys for thermoelectricity. Nanoscale, 2019, 11, 13423-13430.	5.6	5
46	Synchronization of Optomechanical Nanobeams by Mechanical Interaction. Physical Review Letters, 2019, 123, 017402.	7.8	44
47	A Self-Assembled 2D Thermofunctional Material for Radiative Cooling. Small, 2019, 15, e1905290.	10.0	83
48	Development of low-melting point molten salts and detection of solid-to-liquid transitions by alternative techniques to DSC. Solar Energy Materials and Solar Cells, 2019, 202, 110107.	6.2	8
49	Anderson Photon-Phonon Colocalization in Certain Random Superlattices. Physical Review Letters, 2019, 122, 043903.	7.8	28
50	Ammonium hexadeca-oxo-heptavanadate microsquares. A new member in the family of the V <sub>7</sub> O <sub>16</sub> mixed-valence nanostructures. New Journal of Chemistry, 2019, 43, 17548-17556.	2.8	8
51	Modification of the Raman Spectra in Graphene-Based Nanofluids and Its Correlation with Thermal Properties. Nanomaterials, 2019, 9, 804.	4.1	17
52	Impact of the Regularization Parameter in the Mean Free Path Reconstruction Method: Nanoscale Heat Transport and Beyond. Nanomaterials, 2019, 9, 414.	4.1	5
53	Coherent generation and detection of acoustic phonons in topological nanocavities. APL Photonics, 2019, 4, .	5.7	22
54	NanoElectronics roadmap for Europe: From nanodevices and innovative materials to system integration. Solid-State Electronics, 2019, 155, 7-19.	1.4	19

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55	Thermal conductivity in disordered porous nanomembranes. <i>Nanotechnology</i> , 2019, 30, 265401.	2.6	12
56	Crossover from ballistic to diffusive thermal transport in suspended graphene membranes. <i>2D Materials</i> , 2019, 6, 025034.	4.4	19
57	Defects in nano-imprint lithography line patterns: computational modelling and measurement accuracy. , 2019, , .		0
58	Fabrication of self-organized InP nanopillars by ion-bombardment for optoelectronic applications. , 2019, , .		0
59	In-line metrology for roll-to-roll UV assisted nanoimprint lithography using diffractometry. <i>APL Materials</i> , 2018, 6, 058502.	5.1	8
60	Impact of the <i>in situ</i> rise in hydrogen partial pressure on graphene shape evolution during CVD growth of graphene. <i>RSC Advances</i> , 2018, 8, 8234-8239.	3.6	7
61	Design of a Multifunctional Nanoengineered PLLA Surface by Maximizing the Synergies between Biochemical and Surface Design Bactericidal Effects. <i>ACS Omega</i> , 2018, 3, 1509-1521.	3.5	21
62	Heterostructured layered hybrid ZnO/MoS <sub>2</sub> nanosheets with enhanced visible light photocatalytic activity. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 113, 119-124.	4.0	84
63	Raman thermometry analysis: Modelling assumptions revisited. <i>Applied Thermal Engineering</i> , 2018, 130, 1175-1181.	6.0	18
64	Fabrication and replication of re-entrant structures by nanoimprint lithography methods. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018, 36, .	1.2	7
65	On the Enhancement of the Thermal Conductivity of Graphene-Based Nanofluids. , 2018, , .		1
66	All-optical radio-frequency modulation of Anderson-localized modes. <i>Physical Review B</i> , 2018, 98, .	3.2	10
67	Localized thinning for strain concentration in suspended germanium membranes and optical method for precise thickness measurement. <i>AIP Advances</i> , 2018, 8, 115131.	1.3	3
68	Optical modulation of coherent phonon emission in optomechanical cavities. <i>APL Photonics</i> , 2018, 3, 126102.	5.7	11
69	Integrated 3D Hydrogel Waveguide Out-Coupler by Step-and-Repeat Thermal Nanoimprint Lithography: A Promising Sensor Device for Water and pH. <i>Sensors</i> , 2018, 18, 3240.	3.8	14
70	Enhancement Photocatalytic Activity of the Heterojunction of Two-Dimensional Hybrid Semiconductors ZnO/V <sub>2</sub> O <sub>5</sub> . <i>Catalysts</i> , 2018, 8, 374.	3.5	58
71	Nanocrystalline silicon optomechanical cavities. <i>Optics Express</i> , 2018, 26, 9829.	3.4	11
72	Mechanisms behind the enhancement of thermal properties of graphene nanofluids. <i>Nanoscale</i> , 2018, 10, 15402-15409.	5.6	49

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73	Composites of Laminar Nanostructured ZnO and VO <sub>x</sub> -Nanotubes Hybrid as Visible Light Active Photocatalysts. <i>Catalysts</i> , 2018, 8, 93.	3.5	9
74	Design of Hierarchical Surfaces for Tuning Wetting Characteristics. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 7701-7709.	8.0	44
75	Thermal conductivity of epitaxially grown InP: experiment and simulation. <i>CrystEngComm</i> , 2017, 19, 1879-1887.	2.6	13
76	Nonlinear dynamics and chaos in an optomechanical beam. <i>Nature Communications</i> , 2017, 8, 14965.	12.8	75
77	Angle-Dependent Photoluminescence Spectroscopy of Solution-Processed Organic Semiconducting Nanobelts. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12441-12446.	3.1	4
78	Self-assembled three-dimensional inverted photonic crystals on a photonic chip. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1700039.	1.8	2
79	Optomechanical coupling in the Anderson-localization regime. <i>Physical Review B</i> , 2017, 95, .	3.2	14
80	Hierarchical surfaces for enhanced self-cleaning applications. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 045020.	2.6	26
81	Directional elastic wave propagation in high-aspect-ratio photoresist gratings: liquid infiltration and aging. <i>Nanoscale</i> , 2017, 9, 2739-2747.	5.6	3
82	Record Low Thermal Conductivity of Polycrystalline MoS <sub>2</sub> Films: Tuning the Thermal Conductivity by Grain Orientation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 37905-37911.	8.0	35
83	Thermal transport in epitaxial Si <sub>1-x</sub> Ge <sub>x</sub> alloy nanowires with varying composition and morphology. <i>Nanotechnology</i> , 2017, 28, 505704.	2.6	9
84	Thermal conductivity and air-mediated losses in periodic porous silicon membranes at high temperatures. <i>Nature Communications</i> , 2017, 8, 415.	12.8	59
85	Self-Assembled Nanofeatures in Complex Three-Dimensional Topographies via Nanoimprint and Block Copolymer Lithography Methods. <i>ACS Omega</i> , 2017, 2, 4417-4423.	3.5	5
86	Mechanical oscillations in lasing microspheres. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	7
87	Raman antenna effect from exciton-phonon coupling in organic semiconducting nanobelts. <i>Nanoscale</i> , 2017, 9, 19328-19336.	5.6	4
88	Elastic Properties of Few Nanometers Thick Polycrystalline MoS <sub>2</sub> Membranes: A Nondestructive Study. <i>Nano Letters</i> , 2017, 17, 7647-7651.	9.1	22
89	Effect of the annealing on the power factor of un-doped cold-pressed SnSe. <i>Applied Thermal Engineering</i> , 2017, 111, 1426-1432.	6.0	21
90	Modification of thermal conductivity and phonon dispersion relation by means of phononic crystals. , 2017, , .		0

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91	Unveiled electric profiles within hydrogen bonds suggest DNA base pairs with similar bond strengths. PLoS ONE, 2017, 12, e0185638.	2.5	5
92	Thermal transport in suspended silicon membranes measured by laser-induced transient gratings. AIP Advances, 2016, 6, .	1.3	40
93	Finite element analysis of true and pseudo surface acoustic waves in one-dimensional phononic crystals. Journal of Applied Physics, 2016, 119, .	2.5	61
94	Measurement and modeling of the effective thermal conductivity of sintered silver pastes. International Journal of Thermal Sciences, 2016, 108, 185-194.	4.9	35
95	Thermal conductivity of MoS <sub>2</sub> polycrystalline nanomembranes. 2D Materials, 2016, 3, 035016.	4.4	37
96	Titanium particle incorporation in block copolymer templates. Polymer, 2016, 105, 195-202.	3.8	1
97	Two-Dimensional Phononic Crystals: Disorder Matters. Nano Letters, 2016, 16, 5661-5668.	9.1	116
98	Self-sustained coherent phonon generation in optomechanical cavities. Journal of Optics (United Kingdom), 2016, 19, 121001.	2.2	12
99	Nanoscale pillar hypersonic surface phononic crystals. Physical Review B, 2016, 94, .	3.2	43
100	Self-pulsing and phonon lasing in optomechanical crystals. , 2016, , .		0
101	Orthotropic Piezoelectricity in 2D Nanocellulose. Scientific Reports, 2016, 6, 34616.	3.3	32
102	Synthesis and photocatalytic activity of hybrid layered ZnO(myristic acid)/Ag nanoparticles. Materials Letters, 2016, 181, 8-11.	2.6	3
103	Nanophononics: state of the art and perspectives. European Physical Journal B, 2016, 89, 1.	1.5	149
104	A hybrid organic-inorganic layered TiO <sub>2</sub> based nanocomposite for sunlight photocatalysis. RSC Advances, 2016, 6, 18538-18541.	3.6	9
105	Fabrication of phononic crystals on free-standing silicon membranes. Microelectronic Engineering, 2016, 149, 41-45.	2.4	30
106	A self-stabilized coherent phonon source driven by optical forces. Scientific Reports, 2015, 5, 15733.	3.3	39
107	Far-field characterization of the thermal dynamics in lasing microspheres. Scientific Reports, 2015, 5, 14452.	3.3	2
108	"LaTIMA" an innovative test stand for thermal and electrical characterization of highly conductive metals, die attach, and substrate materials. , 2015, , .		10

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109	(Invited) Tuning of Heat Transport across Thin Films of Polycrystalline AlN via Multiscale Structural Defects. ECS Transactions, 2015, 69, 53-64.	0.5	2
110	Dimensional and defectivity nanometrology of directed self-assembly patterns. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 267-270.	0.8	3
111	A single-source precursor route to anisotropic halogen-doped zinc oxide particles as a promising candidate for new transparent conducting oxide materials. Beilstein Journal of Nanotechnology, 2015, 6, 2161-2172.	2.8	5
112	Structural characterisation of slightly Fe-doped SrTiO <sub>3</sub> grown via a sol-gel hydrothermal synthesis. Journal of Sol-Gel Science and Technology, 2015, 75, 593-601.	2.4	47
113	Residual layer-free Reverse Nanoimprint Lithography on silicon and metal-coated substrates. Microelectronic Engineering, 2015, 141, 56-61.	2.4	17
114	Phonon dispersion in hypersonic two-dimensional phononic crystal membranes. Physical Review B, 2015, 91, .	3.2	79
115	Reconstructing phonon mean-free-path contributions to thermal conductivity using nanoscale membranes. Physical Review B, 2015, 91, .	3.2	111
116	Electrical properties and strain distribution of Ge suspended structures. Solid-State Electronics, 2015, 108, 13-18.	1.4	2
117	A diffractometer for quality control in nano fabrication processing based on subwavelength diffraction. Proceedings of SPIE, 2015, , .	0.8	1
118	Tuning Thermal Transport in Ultrathin Silicon Membranes by Surface Nanoscale Engineering. ACS Nano, 2015, 9, 3820-3828.	14.6	104
119	Optical and mechanical properties of nanofibrillated cellulose: Toward a robust platform for next-generation green technologies. Carbohydrate Polymers, 2015, 126, 40-46.	10.2	45
120	Nanoparticle shape anisotropy and photoluminescence properties: Europium containing ZnO as a Model Case. Nanoscale, 2015, 7, 16969-16982.	5.6	30
121	In-line metrology setup for periodic nanostructures based on sub-wavelength diffraction. Proceedings of SPIE, 2015, , .	0.8	2
122	Mapping self-assembled dots and line arrays by image analysis for quantification of defect density and alignment. Proceedings of SPIE, 2015, , .	0.8	0
123	A Hooke's law-based approach to protein folding rate. Journal of Theoretical Biology, 2015, 364, 407-417.	1.7	9
124	Dynamical back-action at 5.5 GHz in a corrugated optomechanical beam. AIP Advances, 2014, 4, .	1.3	18
125	Cavity modes and optomechanic interactions in strip waveguide. IOP Conference Series: Materials Science and Engineering, 2014, 68, 012003.	0.6	1
126	Order quantification of hexagonal periodic arrays fabricated by <i>in situ</i> solvent-assisted nanoimprint lithography of block copolymers. Nanotechnology, 2014, 25, 175703.	2.6	19



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127	Light Scattering Investigation of 2D and 3D Opal Template Formation on Hydrophilized Surfaces. ECS Transactions, 2014, 58, 9-18.	0.5	6
128	Defect analysis and alignment quantification of line arrays prepared by directed self-assembly of a block copolymer. , 2014, , .		3
129	A novel contactless technique for thermal conductivity determination: Two-laser Raman thermometry. , 2014, , .		1
130	High quality single crystal Ge nano-membranes for opto-electronic integrated circuitry. Journal of Applied Physics, 2014, 115, .	2.5	7
131	Nanoimprint-assisted directed self-assembly of low-molecular weight block copolymers: a route for 3D and multilevel nanostructures. , 2014, , .		0
132	Order and defectivity nanometrology by image processing and analysis of sub-20 nm BCPs features for lithographic applications. Proceedings of SPIE, 2014, , .	0.8	0
133	Hypersonic phonon propagation in one-dimensional surface phononic crystal. Applied Physics Letters, 2014, 104, .	3.3	30
134	Optical and mechanical mode tuning in an optomechanical crystal with light-induced thermal effects. Journal of Applied Physics, 2014, 116, 093506.	2.5	5
135	Tensile strain mapping in flat germanium membranes. Applied Physics Letters, 2014, 104, .	3.3	11
136	Formation of Titanium Nanostructures on Block Copolymer Templates with Varying Molecular Weights. Macromolecules, 2014, 47, 8691-8699.	4.8	6
137	Acoustic phonon propagation in ultra-thin Si membranes under biaxial stress field. New Journal of Physics, 2014, 16, 073024.	2.9	17
138	Transparent aluminium zinc oxide thin films with enhanced thermoelectric properties. Journal of Materials Chemistry A, 2014, 2, 6649-6655.	10.3	97
139	Ordered 2D Colloidal Photonic Crystals on Gold Substrates by Surfactant-Assisted Fast Dip Coating. Small, 2014, 10, 1895-1901.	10.0	55
140	Embedded inkjet printed silver grids for ITO-free organic solar cells with high fill factor. Solar Energy Materials and Solar Cells, 2014, 127, 50-57.	6.2	45
141	Reduction of the thermal conductivity in free-standing silicon nano-membranes investigated by non-invasive Raman thermometry. APL Materials, 2014, 2, .	5.1	125
142	Photonic Crystals: Ordered 2D Colloidal Photonic Crystals on Gold Substrates by Surfactant-Assisted Fast Dip Coating (Small 10/2014). Small, 2014, 10, 1894-1894.	10.0	0
143	Modification of Akhieser mechanism in Si nanomembranes and thermal conductivity dependence of the $Q$ -factor of high frequency nanoresonators. Semiconductor Science and Technology, 2014, 29, 124010.	2.0	15
144	Nanostructured p-type $\text{Cr/V}_2\text{O}_5$ thin films with boosted thermoelectric properties. Journal of Materials Chemistry A, 2014, 2, 6456-6462.	10.3	23

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145	A one-dimensional optomechanical crystal with a complete phononic band gap. <i>Nature Communications</i> , 2014, 5, 4452.	12.8	138
146	A physics-based scoring function for protein structural decoys: Dynamic testing on targets of CASP-ROLL. <i>Chemical Physics Letters</i> , 2014, 610-611, 135-140.	2.6	7
147	A PhoXonic crystal: Photonic and phononic bandgaps in a 1D optomechanical crystal. , 2014, , .		0
148	Nanoarchitecture Effects on Persistent Room Temperature Photoconductivity and Thermal Conductivity in Ceramic Semiconductors: Mesoporous, Yolk-Shell, and Hollow ZnO Spheres. <i>Crystal Growth and Design</i> , 2014, 14, 4593-4601.	3.0	21
149	A novel contactless technique for thermal field mapping and thermal conductivity determination: Two-Laser Raman Thermometry. <i>Review of Scientific Instruments</i> , 2014, 85, 034901.	1.3	87
150	Study of the Kinetics and Mechanism of Rapid Self-Assembly in Block Copolymer Thin Films during Solvo-Microwave Annealing. <i>Langmuir</i> , 2014, 30, 10728-10739.	3.5	34
151	Optomechanic interaction in a corrugated phoxonic nanobeam cavity. <i>Physical Review B</i> , 2014, 89, .	3.2	46
152	Synthetic Routes for the Preparation of Ordered Vanadium Oxide Inverted Opal Electrodes for Li-Ion Batteries. <i>ECS Transactions</i> , 2014, 58, 7-14.	0.5	2
153	Electrocatalytic tuning of biosensing response through electrostatic or hydrophobic enzyme-graphene oxide interactions. <i>Biosensors and Bioelectronics</i> , 2014, 61, 655-662.	10.1	42
154	Lasing in nanoimprinted two-dimensional photonic crystal band-edge lasers. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	30
155	Fabrication of highly ordered sub-20 nm silicon nanopillars by block copolymer lithography combined with resist design. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3544.	5.5	28
156	Core-Shell Tin Oxide, Indium Oxide, and Indium Tin Oxide Nanoparticles on Silicon with Tunable Dispersion: Electrochemical and Structural Characteristics as a Hybrid Li-Ion Battery Anode. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 8195-8202.	8.0	27
157	Nanoscale Imaging of InN Segregation and Polymorphism in Single Vertically Aligned InGaN/GaN Multi Quantum Well Nanorods by Tip-Enhanced Raman Scattering. <i>Nano Letters</i> , 2013, 13, 3205-3212.	9.1	37
158	Thermal conductivity reduction in Si free-standing membranes investigated using Raman thermometry. , 2013, , .		0
159	Modelling of Thermal Rectification in Si and Ge Thin Films. , 2013, , .		0
160	Soft-graphoepitaxy using nanoimprinted polyhedral oligomeric silsesquioxane substrates for the directed self-assembly of PS-b-PDMS. <i>European Polymer Journal</i> , 2013, 49, 3512-3521.	5.4	12
161	SrTiO <sub>3</sub> thin films as high efficient thermoelectric materials. , 2013, , .		0
162	Nanoscale thermal transport and phonon dynamics in ultra-thin Si based nanostructures. , 2013, , .		0

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163	Direct Measurement of Room-Temperature Nondiffusive Thermal Transport Over Micron Distances in a Silicon Membrane. <i>Physical Review Letters</i> , 2013, 110, 025901.	7.8	330
164	Electrical Detection of Spin Precession in Freely Suspended Graphene Spin Valves on Cross-Linked Poly(methyl methacrylate). <i>Small</i> , 2013, 9, 156-160.	10.0	39
165	Metallic nanoparticles enhanced the spontaneous emission of semiconductor nanocrystals embedded in nanoimprinted photonic crystals. <i>Nanoscale</i> , 2013, 5, 239-245.	5.6	11
166	Lifetimes of Confined Acoustic Phonons in Ultrathin Silicon Membranes. <i>Physical Review Letters</i> , 2013, 110, 095503.	7.8	96
167	Ultra-thin free-standing single crystalline silicon membranes with strain control. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	54
168	Rechargeable Li-Ion Battery Anode of Indium Oxide with Visible to Infra-Red Transparency. <i>ECS Transactions</i> , 2013, 53, 53-61.	0.5	3
169	Epitaxial growth of visible to infra-red transparent conducting In <sub>2</sub> O <sub>3</sub> nanodot dispersions and reversible charge storage as a Li-ion battery anode. <i>Nanotechnology</i> , 2013, 24, 065401.	2.6	18
170	Spatial mapping of exciton lifetimes in single ZnO nanowires. <i>APL Materials</i> , 2013, 1, .	5.1	8
171	Flexural mode dispersion in ultra-thin Ge membranes. , 2013, , .		0
172	Epitaxial growth of an antireflective, conductive, graded index ITO nanowire layer. <i>Frontiers in Physics</i> , 2013, 1, .	2.1	4
173	Non Local Corrections to the Electronic Structure of Non Ideal Electron Gases: The Case of Graphene and Tyrosine. <i>Journal of Modern Physics</i> , 2013, 04, 522-527.	0.6	2
174	Enhancement of extraction efficiency in nanoimprinted optical device structures. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
175	Quantified Comparison of Ordering in Self-Assembled Block Copolymer Films of Different Molecular Weights by Image Analysis Method. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1412, 20.	0.1	1
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