

Clivia M Sotomayor Torres

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

457
papers

10,453
citations

48
h-index

82
g-index

529
ext. papers

11,596
ext. citations

4.4
avg, IF

5.94
L-index

#	Paper	IF	Citations
457	Unraveling Heat Transport and Dissipation in Suspended MoSe from Bulk to Monolayer.. <i>Advanced Materials</i> , 2022 , e2108352	24	1
456	Highly-Scattering Cellulose-Based Films for Radiative Cooling.. <i>Advanced Science</i> , 2022 , e2104758	13.6	8
455	Introducing surface functionality on thermoformed polymeric films. <i>Micro and Nano Engineering</i> , 2022 , 14, 100112	3.4	0
454	Spectroscopic and Thermal Characterization of Extra Virgin Olive Oil Adulterated with Edible Oils.. <i>Foods</i> , 2022 , 11,	4.9	2
453	Impact of surface topography on the bacterial attachment to micro- and nano-patterned polymer films.. <i>Surfaces and Interfaces</i> , 2021 , 27, 101494	4.1	2
452	Anisotropic Thermal Conductivity of Crystalline Layered SnSe. <i>Nano Letters</i> , 2021 , 21, 9172-9179	11.5	3
451	Optomechanical crystals for spatial sensing of submicron sized particles. <i>Scientific Reports</i> , 2021 , 11, 7829	4.9	3
450	Reversing the Humidity Response of MoS- and WS-Based Sensors Using Transition-Metal Salts. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 23201-23209	9.5	0
449	Simulations of micro-sphere/shell 2D silica photonic crystals for radiative cooling. <i>Optics Express</i> , 2021 , 29, 16857-16866	3.3	4
448	Layered Nanocomposite 2D-TiO2 with Cu2O Nanoparticles as an Efficient Photocatalyst for 4-Chlorophenol Degradation and Hydrogen Evolution. <i>Topics in Catalysis</i> , 2021 , 64, 167-180	2.3	7
447	Heat Transport Control and Thermal Characterization of Low-Dimensional Materials: A Review. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
446	Electron beam lithography for direct patterning of MoS on PDMS substrates.. <i>RSC Advances</i> , 2021 , 11, 19908-19913	3.7	0
445	Quantifying thermal transport in buried semiconductor nanostructures via cross-sectional scanning thermal microscopy. <i>Nanoscale</i> , 2021 , 13, 10829-10836	7.7	3
444	Antibacterial activity testing methods for hydrophobic patterned surfaces. <i>Scientific Reports</i> , 2021 , 11, 6675	4.9	8
443	Bottom-Up Development of Nanoimprinted PLLA Composite Films with Enhanced Antibacterial Properties for Smart Packaging Applications. <i>Macromol</i> , 2021 , 1, 49-63		9
442	Fabrication and characterization of large-area suspended MoSe2 crystals down to the monolayer. <i>JPhys Materials</i> , 2021 , 4, 046001	4.2	3
441	Construction of 0D/2D composites heterostructured of CdTe QDs/ZnO hybrid layers to improve environmental remediation by a direct Z-scheme. <i>Catalysis Communications</i> , 2021 , 159, 106352	3.2	

440	Injection locking in an optomechanical coherent phonon source. <i>Nanophotonics</i> , 2021 , 10, 1319-1327	6.3	2
439	Quantifying the Robustness of Topological Slow Light. <i>Physical Review Letters</i> , 2021 , 126, 027403	7.4	19
438	Real-time Optical Dimensional Metrology via Diffractometry for Nanofabrication. <i>Scientific Reports</i> , 2020 , 10, 5371	4.9	4
437	Broadband Dynamic Polarization Conversion in Optomechanical Metasurfaces. <i>Frontiers in Physics</i> , 2020 , 7,	3.9	2
436	Ferromagnetic Resonance Assisted Optomechanical Magnetometer. <i>Physical Review Letters</i> , 2020 , 125, 147201	7.4	7
435	Properties of nanocrystalline silicon probed by optomechanics. <i>Nanophotonics</i> , 2020 , 9, 4819-4829	6.3	3
434	Thermal transport in nanoporous holey silicon membranes investigated with optically induced transient thermal gratings. <i>Journal of Applied Physics</i> , 2020 , 128, 235106	2.5	2
433	2D Phononic Crystals: Progress and Prospects in Hypersound and Thermal Transport Engineering. <i>Advanced Functional Materials</i> , 2020 , 30, 1904434	15.6	25
432	Nanoscale Mapping of Thermal and Mechanical Properties of Bare and Metal-Covered Self-Assembled Block Copolymer Thin Films. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 487-496	4.3	9
431	Ion bombardment induced formation of self-organized wafer-scale GaInP nanopillar assemblies. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2020 , 38, 012801	1.3	1
430	Thermoreflectance techniques and Raman thermometry for thermal property characterization of nanostructures. <i>Journal of Applied Physics</i> , 2020 , 128, 131101	2.5	14
429	High-Frequency Mechanical Excitation of a Silicon Nanostring with Piezoelectric Aluminum Nitride Layers. <i>Physical Review Applied</i> , 2020 , 14,	4.3	4
428	High-temperature silicon thermal diode and switch. <i>Nano Energy</i> , 2020 , 78, 105261	17.1	16
427	Large thermoelectric power variations in epitaxial thin films of layered perovskite GdBaCo ₂ O _{5.5} □□ with a different preferred orientation and strain. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19975-19983 ¹³		1
426	Graphene related materials for thermal management. <i>2D Materials</i> , 2020 , 7, 012001	5.9	82
425	Fracturing of Polycrystalline MoS ₂ Nanofilms. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1169-1175	4	6
424	Enhancement of Thermal Boundary Conductance of Metal-Polymer System. <i>Nanomaterials</i> , 2020 , 10,	5.4	11
423	Development of low-melting point molten salts and detection of solid-to-liquid transitions by alternative techniques to DSC. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 202, 110107	6.4	4

4 ²²	Anderson Photon-Phonon Colocalization in Certain Random Superlattices. <i>Physical Review Letters</i> , 2019 , 122, 043903	7.4	21
4 ²¹	Ammonium hexadeca-oxo-heptavanadate microsquares. A new member in the family of the V7O16 mixed-valence nanostructures. <i>New Journal of Chemistry</i> , 2019 , 43, 17548-17556	3.6	5
4 ²⁰	Modification of the Raman Spectra in Graphene-Based Nanofluids and Its Correlation with Thermal Properties. <i>Nanomaterials</i> , 2019 , 9,	5.4	10
4 ¹⁹	Impact of the Regularization Parameter in the Mean Free Path Reconstruction Method: Nanoscale Heat Transport and Beyond. <i>Nanomaterials</i> , 2019 , 9,	5.4	4
4 ¹⁸	Coherent generation and detection of acoustic phonons in topological nanocavities. <i>APL Photonics</i> , 2019 , 4, 030805	5.2	14
4 ¹⁷	NanoElectronics roadmap for Europe: From nanodevices and innovative materials to system integration. <i>Solid-State Electronics</i> , 2019 , 155, 7-19	1.7	12
4 ¹⁶	Thermal conductivity in disordered porous nanomembranes. <i>Nanotechnology</i> , 2019 , 30, 265401	3.4	6
4 ¹⁵	Crossover from ballistic to diffusive thermal transport in suspended graphene membranes. <i>2D Materials</i> , 2019 , 6, 025034	5.9	13
4 ¹⁴	Enhanced thermoelectric properties of lightly Nb doped SrTiO3 thin films. <i>Nanoscale Advances</i> , 2019 , 1, 3647-3653	5.1	4
4 ¹³	Heterostructured 2D ZnO hybrid nanocomposites sensitized with cubic Cu2O nanoparticles for sunlight photocatalysis. <i>Journal of Materials Science</i> , 2019 , 54, 13523-13536	4.3	14
4 ¹²	Nanowire forest of pnictogen-chalcogenide alloys for thermoelectricity. <i>Nanoscale</i> , 2019 , 11, 13423-13430	3.9	2
4 ¹¹	Synchronization of Optomechanical Nanobeams by Mechanical Interaction. <i>Physical Review Letters</i> , 2019 , 123, 017402	7.4	28
4 ¹⁰	A Self-Assembled 2D Thermofunctional Material for Radiative Cooling. <i>Small</i> , 2019 , 15, e1905290	11	41
4 ⁰⁹	In-line metrology for roll-to-roll UV assisted nanoimprint lithography using diffractometry. <i>APL Materials</i> , 2018 , 6, 058502	5.7	7
4 ⁰⁸	Impact of the rise in hydrogen partial pressure on graphene shape evolution during CVD growth of graphene. <i>RSC Advances</i> , 2018 , 8, 8234-8239	3.7	7
4 ⁰⁷	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	3.9	19
4 ⁰⁶	Heterostructured layered hybrid ZnO/MoS2 nanosheets with enhanced visible light photocatalytic activity. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 113, 119-124	3.9	57
4 ⁰⁵	Nanocrystalline silicon optomechanical cavities. <i>Optics Express</i> , 2018 , 26, 9829-9839	3.3	8

404	Mechanisms behind the enhancement of thermal properties of graphene nanofluids. <i>Nanoscale</i> , 2018 , 10, 15402-15409	7.7	36
403	Composites of Laminar Nanostructured ZnO and VOx-Nanotubes Hybrid as Visible Light Active Photocatalysts. <i>Catalysts</i> , 2018 , 8, 93	4	7
402	Raman thermometry analysis: Modelling assumptions revisited. <i>Applied Thermal Engineering</i> , 2018 , 130, 1175-1181	5.8	11
401	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, 06JF01	1.3	4
400	On the Enhancement of the Thermal Conductivity of Graphene-Based Nanofluids 2018 ,		1
399	All-optical radio-frequency modulation of Anderson-localized modes. <i>Physical Review B</i> , 2018 , 98,	3.3	3
398	Localized thinning for strain concentration in suspended germanium membranes and optical method for precise thickness measurement. <i>AIP Advances</i> , 2018 , 8, 115131	1.5	2
397	Optical modulation of coherent phonon emission in optomechanical cavities. <i>APL Photonics</i> , 2018 , 3, 126102	5.2	7
396	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,	3.8	8
395	Enhancement Photocatalytic Activity of the Heterojunction of Two-Dimensional Hybrid Semiconductors ZnO/V2O5. <i>Catalysts</i> , 2018 , 8, 374	4	38
394	Design of Hierarchical Surfaces for Tuning Wetting Characteristics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7701-7709	9.5	33
393	Thermal conductivity of epitaxially grown InP: experiment and simulation. <i>CrystEngComm</i> , 2017 , 19, 1879-1887	3.3	3
392	Nonlinear dynamics and chaos in an optomechanical beam. <i>Nature Communications</i> , 2017 , 8, 14965	17.4	47
391	Angle-Dependent Photoluminescence Spectroscopy of Solution-Processed Organic Semiconducting Nanobelts. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 12441-12446	3.8	2
390	Self-assembled three-dimensional inverted photonic crystals on a photonic chip. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017 , 214, 1700039	1.6	0
389	Optomechanical coupling in the Anderson-localization regime. <i>Physical Review B</i> , 2017 , 95,	3.3	6
388	Hierarchical surfaces for enhanced self-cleaning applications. <i>Journal of Micromechanics and Microengineering</i> , 2017 , 27, 045020	2	19
387	Directional elastic wave propagation in high-aspect-ratio photoresist gratings: liquid infiltration and aging. <i>Nanoscale</i> , 2017 , 9, 2739-2747	7.7	3

386	Record Low Thermal Conductivity of Polycrystalline MoS Films: Tuning the Thermal Conductivity by Grain Orientation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37905-37911	9.5	26
385	Thermal transport in epitaxial Si Ge alloy nanowires with varying composition and morphology. <i>Nanotechnology</i> , 2017 , 28, 505704	3.4	6
384	Unveiled electric profiles within hydrogen bonds suggest DNA base pairs with similar bond strengths. <i>PLoS ONE</i> , 2017 , 12, e0185638	3.7	5
383	Thermal conductivity and air-mediated losses in periodic porous silicon membranes at high temperatures. <i>Nature Communications</i> , 2017 , 8, 415	17.4	34
382	Self-Assembled Nanofeatures in Complex Three-Dimensional Topographies via Nanoimprint and Block Copolymer Lithography Methods. <i>ACS Omega</i> , 2017 , 2, 4417-4423	3.9	4
381	Mechanical oscillations in lasing microspheres. <i>Journal of Applied Physics</i> , 2017 , 122, 053101	2.5	4
380	Raman antenna effect from exciton-phonon coupling in organic semiconducting nanobelts. <i>Nanoscale</i> , 2017 , 9, 19328-19336	7.7	3
379	Elastic Properties of Few Nanometers Thick Polycrystalline MoS Membranes: A Nondestructive Study. <i>Nano Letters</i> , 2017 , 17, 7647-7651	11.5	19
378	Effect of the annealing on the power factor of un-doped cold-pressed SnSe. <i>Applied Thermal Engineering</i> , 2017 , 111, 1426-1432	5.8	17
377	Fabrication of phononic crystals on free-standing silicon membranes. <i>Microelectronic Engineering</i> , 2016 , 149, 41-45	2.5	25
376	Two-Dimensional Phononic Crystals: Disorder Matters. <i>Nano Letters</i> , 2016 , 16, 5661-8	11.5	91
375	Self-sustained coherent phonon generation in optomechanical cavities. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 094006	1.7	10
374	Nanoscale pillar hypersonic surface phononic crystals. <i>Physical Review B</i> , 2016 , 94,	3.3	35
373	Acoustic Phonons in Ultrathin Free-Standing Silicon Membranes 2016 , 305-326		1
372	Orthotropic Piezoelectricity in 2D Nanocellulose. <i>Scientific Reports</i> , 2016 , 6, 34616	4.9	23
371	Synthesis and photocatalytic activity of hybrid layered ZnO(myristic acid)/Ag nanoparticles. <i>Materials Letters</i> , 2016 , 181, 8-11	3.3	2
370	Nanophononics: state of the art and perspectives. <i>European Physical Journal B</i> , 2016 , 89, 1	1.2	124
369	A hybrid organic/organic layered TiO ₂ based nanocomposite for sunlight photocatalysis. <i>RSC Advances</i> , 2016 , 6, 18538-18541	3.7	8

368	Thermal transport in suspended silicon membranes measured by laser-induced transient gratings. <i>AIP Advances</i> , 2016 , 6, 121903	1.5	28
367	Finite element analysis of true and pseudo surface acoustic waves in one-dimensional phononic crystals. <i>Journal of Applied Physics</i> , 2016 , 119, 025308	2.5	41
366	Measurement and modeling of the effective thermal conductivity of sintered silver pastes. <i>International Journal of Thermal Sciences</i> , 2016 , 108, 185-194	4.1	20
365	Thermal conductivity of MoS ₂ polycrystalline nanomembranes. <i>2D Materials</i> , 2016 , 3, 035016	5.9	32
364	Titanium particle incorporation in block copolymer templates. <i>Polymer</i> , 2016 , 105, 195-202	3.9	1
363	Reconstructing phonon mean-free-path contributions to thermal conductivity using nanoscale membranes. <i>Physical Review B</i> , 2015 , 91,	3.3	92
362	Electrical properties and strain distribution of Ge suspended structures. <i>Solid-State Electronics</i> , 2015 , 108, 13-18	1.7	1
361	A diffractometer for quality control in nano fabrication processing based on subwavelength diffraction 2015 ,		1
360	Tuning thermal transport in ultrathin silicon membranes by surface nanoscale engineering. <i>ACS Nano</i> , 2015 , 9, 3820-8	16.7	86
359	Optical and mechanical properties of nanofibrillated cellulose: Toward a robust platform for next-generation green technologies. <i>Carbohydrate Polymers</i> , 2015 , 126, 40-6	10.3	31
358	Nanoparticle shape anisotropy and photoluminescence properties: Europium containing ZnO as a Model Case. <i>Nanoscale</i> , 2015 , 7, 16969-82	7.7	28
357	In-line metrology setup for periodic nanostructures based on sub-wavelength diffraction 2015 ,		2
356	A Hooke's law-based approach to protein folding rate. <i>Journal of Theoretical Biology</i> , 2015 , 364, 407-17	2.3	8
355	A self-stabilized coherent phonon source driven by optical forces. <i>Scientific Reports</i> , 2015 , 5, 15733	4.9	23
354	Far-field characterization of the thermal dynamics in lasing microspheres. <i>Scientific Reports</i> , 2015 , 5, 14452	4.9	2
353	"LaTIMA" an innovative test stand for thermal and electrical characterization of highly conductive metals, die attach, and substrate materials 2015 ,		1
352	(Invited) Tuning of Heat Transport across Thin Films of Polycrystalline AlN via Multiscale Structural Defects. <i>ECS Transactions</i> , 2015 , 69, 53-64	1	2
351	Dimensional and defectivity nanometrology of directed self-assembly patterns. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015 , 12, 267-270		3

350	A single-source precursor route to anisotropic halogen-doped zinc oxide particles as a promising candidate for new transparent conducting oxide materials. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 2161-72	3	4
349	Structural characterisation of slightly Fe-doped SrTiO ₃ grown via a sol-gel hydrothermal synthesis. <i>Journal of Sol-Gel Science and Technology</i> , 2015 , 75, 593-601	2.3	39
348	Residual layer-free Reverse Nanoimprint Lithography on silicon and metal-coated substrates. <i>Microelectronic Engineering</i> , 2015 , 141, 56-61	2.5	12
347	Phonon dispersion in hypersonic two-dimensional phononic crystal membranes. <i>Physical Review B</i> , 2015 , 91,	3.3	64
346	Ordered 2D colloidal photonic crystals on gold substrates by surfactant-assisted fast-rate dip coating. <i>Small</i> , 2014 , 10, 1895-901	11	41
345	Embedded inkjet printed silver grids for ITO-free organic solar cells with high fill factor. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 127, 50-57	6.4	39
344	Reduction of the thermal conductivity in free-standing silicon nano-membranes investigated by non-invasive Raman thermometry. <i>APL Materials</i> , 2014 , 2, 012113	5.7	106
343	Photonic Crystals: Ordered 2D Colloidal Photonic Crystals on Gold Substrates by Surfactant-Assisted Fast-Rate Dip Coating (Small 10/2014). <i>Small</i> , 2014 , 10, 1894-1894	11	
342	Modification of Akhieser mechanism in Si nanomembranes and thermal conductivity dependence of the Q-factor of high frequency nanoresonators. <i>Semiconductor Science and Technology</i> , 2014 , 29, 124010	1.8	14
341	Nanostructured p-type Cr/V ₂ O ₅ thin films with boosted thermoelectric properties. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6456-6462	13	22
340	A one-dimensional optomechanical crystal with a complete phononic band gap. <i>Nature Communications</i> , 2014 , 5, 4452	17.4	107
339	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	2.5	7
338	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	3.5	21
337	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	1.7	74
336	Study of the kinetics and mechanism of rapid self-assembly in block copolymer thin films during solvo-microwave annealing. <i>Langmuir</i> , 2014 , 30, 10728-39	4	32
335	Optomechanic interaction in a corrugated phononic nanobeam cavity. <i>Physical Review B</i> , 2014 , 89,	3.3	35
334	Synthetic Routes for the Preparation of Ordered Vanadium Oxide Inverted Opal Electrodes for Li-Ion Batteries. <i>ECS Transactions</i> , 2014 , 58, 7-14	1	2
333	Thermal Energy Harvesting 2014 , 135-219		2

332	Thermal Isolation Through Nanostructuring 2014 , 331-363		1
331	Electrocatalytic tuning of biosensing response through electrostatic or hydrophobic enzyme-graphene oxide interactions. <i>Biosensors and Bioelectronics</i> , 2014 , 61, 655-62	11.8	37
330	Dynamical back-action at 5.5 GHz in a corrugated optomechanical beam. <i>AIP Advances</i> , 2014 , 4, 124601	1.5	14
329	Cavity modes and optomechanic interactions in strip waveguide. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014 , 68, 012003	0.4	0
328	Order quantification of hexagonal periodic arrays fabricated by in situ solvent-assisted nanoimprint lithography of block copolymers. <i>Nanotechnology</i> , 2014 , 25, 175703	3.4	15
327	Light Scattering Investigation of 2D and 3D Opal Template Formation on Hydrophilized Surfaces. <i>ECS Transactions</i> , 2014 , 58, 9-18	1	6
326	Defect analysis and alignment quantification of line arrays prepared by directed self-assembly of a block copolymer 2014 ,		2
325	High quality single crystal Ge nano-membranes for opto-electronic integrated circuitry. <i>Journal of Applied Physics</i> , 2014 , 115, 144307	2.5	7
324	Hypersonic phonon propagation in one-dimensional surface phononic crystal. <i>Applied Physics Letters</i> , 2014 , 104, 123108	3.4	28
323	Optical and mechanical mode tuning in an optomechanical crystal with light-induced thermal effects. <i>Journal of Applied Physics</i> , 2014 , 116, 093506	2.5	4
322	Tensile strain mapping in flat germanium membranes. <i>Applied Physics Letters</i> , 2014 , 104, 172107	3.4	10
321	Formation of Titanium Nanostructures on Block Copolymer Templates with Varying Molecular Weights. <i>Macromolecules</i> , 2014 , 47, 8691-8699	5.5	6
320	Acoustic phonon propagation in ultra-thin Si membranes under biaxial stress field. <i>New Journal of Physics</i> , 2014 , 16, 073024	2.9	16
319	Transparent aluminium zinc oxide thin films with enhanced thermoelectric properties. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6649-6655	13	77
318	Lasing in nanoimprinted two-dimensional photonic crystal band-edge lasers. <i>Applied Physics Letters</i> , 2013 , 102, 073101	3.4	28
317	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	7.1	24
316	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 & Interfaces</i> , 2013 , 5, 8195-202	9.5	26
315	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, 3205-12	11.5	32

3 ¹⁴	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	5.2	9
3 ¹³	Direct measurement of room-temperature nondiffusive thermal transport over micron distances in a silicon membrane. <i>Physical Review Letters</i> , 2013 , 110, 025901	7.4	284
3 ¹²	Electrical detection of spin precession in freely suspended graphene spin valves on cross-linked poly(methyl methacrylate). <i>Small</i> , 2013 , 9, 156-60	11	37
3 ¹¹	Metallic nanoparticles enhanced the spontaneous emission of semiconductor nanocrystals embedded in nanoimprinted photonic crystals. <i>Nanoscale</i> , 2013 , 5, 239-45	7.7	11
3 ¹⁰	Lifetimes of confined acoustic phonons in ultrathin silicon membranes. <i>Physical Review Letters</i> , 2013 , 110, 095503	7.4	78
3 ⁰⁹	Ultra-thin free-standing single crystalline silicon membranes with strain control. <i>Applied Physics Letters</i> , 2013 , 102, 192108	3.4	44
3 ⁰⁸	Rechargeable Li-Ion Battery Anode of Indium Oxide with Visible to Infra-Red Transparency. <i>ECS Transactions</i> , 2013 , 53, 53-61	1	3
3 ⁰⁷	Epitaxial growth of visible to infra-red transparent conducting In ₂ O ₃ nanodot dispersions and reversible charge storage as a Li-ion battery anode. <i>Nanotechnology</i> , 2013 , 24, 065401	3.4	17
3 ⁰⁶	Spatial mapping of exciton lifetimes in single ZnO nanowires. <i>APL Materials</i> , 2013 , 1, 012103	5.7	7
3 ⁰⁵	Epitaxial growth of an antireflective, conductive, graded index ITO nanowire layer. <i>Frontiers in Physics</i> , 2013 , 1,	3.9	3
3 ⁰⁴	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	0.5	2
3 ⁰³	Enhanced light extraction in ITO-free OLEDs using double-sided printed electrodes. <i>Nanoscale</i> , 2012 , 4, 3495-500	7.7	14
3 ⁰²	Nanoimprint Technologies 2012 , 117-140		
3 ⁰¹	Polymer photonic band-gaps fabricated by nanoimprint lithography. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2012 , 10, 632-635	2.6	3
3 ⁰⁰	Zinc Oxide Nanostructures by Solvothermal Synthesis. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 555, 40-50	0.5	15
299	Phonons in slow motion: dispersion relations in ultrathin Si membranes. <i>Nano Letters</i> , 2012 , 12, 3569-73	11.5	76
298	Noise-Assisted Crystallization of Opal Films. <i>Advanced Functional Materials</i> , 2012 , 22, 1812-1821	15.6	27
297	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		1

296	Calculation of the specific heat in ultra-thin free-standing silicon membranes. <i>Journal of Physics: Conference Series</i> , 2012 , 395, 012105	0.3	5
295	Soft Graphoepitaxy of Hexagonal PS-b-PDMS on Nanopatterned POSS Surfaces fabricated by Nanoimprint Lithography. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2012 , 25, 239-244	0.7	11
294	Surface-directed dewetting of a block copolymer for fabricating highly uniform nanostructured microdroplets and concentric nanorings. <i>ACS Nano</i> , 2011 , 5, 1073-85	16.7	34
293	Zinc oxide/carboxylic acid lamellar structures. <i>Materials Research Bulletin</i> , 2011 , 46, 2191-2195	5.1	14
292	Semiconducting properties of layered cadmium sulphide-based hybrid nanocomposites. <i>Nanoscale Research Letters</i> , 2011 , 6, 523	5	14
291	The Morphology of Graphene Sheets Treated in an Ozone Generator. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 18257-18260	3.8	50
290	Fine control of critical dimension for the fabrication of large bandgap high frequency photonic and phononic crystals. <i>Microelectronic Engineering</i> , 2011 , 88, 2233-2235	2.5	4
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