Clivia M Sotomayor Torres

List of Publications by Citations

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	Intrinsic mechanism for the poor luminescence properties of quantum-box systems. *Physical Review B*, **1991**, 44, 10945-10948	3.3	761
456	Direct measurement of room-temperature nondiffusive thermal transport over micron distances in a silicon membrane. *Physical Review Letters*, **2013**, 110, 025901	7.4	284
455	Light-emitting diodes with semiconductor nanocrystals. *Angewandte Chemie - International Edition*, **2008**, 47, 6538-49	16.4	284
454	Nanoimprint lithography: challenges and prospects. *Nanotechnology*, **2001**, 12, 91-95	3.4	170
453	Self-guiding in two-dimensional photonic crystals. *Optics Express*, **2003**, 11, 1203-11	3.3	164
452	Bottom-up growth of fully transparent contact layers of indium tin oxide nanowires for light-emitting devices. *Nature Nanotechnology*, **2009**, 4, 239-44	28.7	143
451	Nanoimprint lithography: an alternative nanofabrication approach. *Materials Science and Engineering C*, **2003**, 23, 23-31	8.3	137
450	Problems of the nanoimprinting technique for nanometer scale pattern definition. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1998**, 16, 3917		135
449	Photonic Crystal Films with High Refractive Index Contrast. *Advanced Materials*, **2000**, 12, 1499-1503	24	133
448	Diffraction of light from thin-film polymethylmethacrylate opaline photonic crystals. *Physical Review E*, **2001**, 63, 056603	2.4	130
447	Damaging graphene with ozone treatment: a chemically tunable metal-insulator transition. *ACS Nano*, **2010**, 4, 4033-8	16.7	126
446	Nanophononics: state of the art and perspectives. *European Physical Journal B*, **2016**, 89, 1	1.2	124
445	Magnetotransport in disordered graphene exposed to ozone: From weak to strong localization. *Physical Review B*, **2010**, 81,	3.3	122
444	Dye-Containing Polymer Beads as Photonic Crystals. *Chemistry of Materials*, **2000**, 12, 2508-2512	9.6	116
443	Nano-Urchin: The Formation and Structure of High-Density Spherical Clusters of Vanadium Oxide Nanotubes. *Chemistry of Materials*, **2006**, 18, 3016-3022	9.6	114
442	A one-dimensional optomechanical crystal with a complete phononic band gap. *Nature Communications*, **2014**, 5, 4452	17.4	107
441	Reduction of the thermal conductivity in free-standing silicon nano-membranes investigated by non-invasive Raman thermometry. *APL Materials*, **2014**, 2, 012113	5.7	106

440	Optical characterization of submonolayer and monolayer InAs structures grown in a GaAs matrix on (100) and high-index surfaces. *Applied Physics Letters*, **1994**, 64, 1526-1528	3.4	100
439	Towards Plastic Electronics: Patterning Semiconducting Polymers by Nanoimprint Lithography. *Advanced Materials*, **2002**, 14, 588	24	99
438	Heterostructures of Polymer Photonic Crystal Films. *Chemistry of Materials*, **2003**, 15, 3786-3792	9.6	99
437	Reconstructing phonon mean-free-path contributions to thermal conductivity using nanoscale membranes. *Physical Review B*, **2015**, 91,	3.3	92
436	Two-Dimensional Phononic Crystals: Disorder Matters. *Nano Letters*, **2016**, 16, 5661-8	11.5	91
435	Tuning thermal transport in ultrathin silicon membranes by surface nanoscale engineering. *ACS Nano*, **2015**, 9, 3820-8	16.7	86
434	Ground state exciton lasing in CdSe submonolayers inserted in a ZnSe matrix. *Applied Physics Letters*, **1996**, 69, 1343-1345	3.4	83
433	Graphene related materials for thermal management. *2D Materials*, **2020**, 7, 012001	5.9	82
432	Lifetimes of confined acoustic phonons in ultrathin silicon membranes. *Physical Review Letters*, **2013**, 110, 095503	7.4	78
431	Shell Structure and Electronic Excitations of Quantum Dots in a Magnetic Field Probed by Inelastic Light Scattering. *Physical Review Letters*, **1996**, 77, 354-357	7.4	78
430	Transparent aluminium zinc oxide thin films with enhanced thermoelectric properties. *Journal of Materials Chemistry A*, **2014**, 2, 6649-6655	13	77
429	Phonons in slow motion: dispersion relations in ultrathin Si membranes. *Nano Letters*, **2012**, 12, 3569-73	11.5	76
428	Reduced Surfactant Uptake in Three Dimensional Assemblies of VOx Nanotubes Improves Reversible Li+ Intercalation and Charge Capacity. *Advanced Functional Materials*, **2009**, 19, 1736-1745	15.6	76
427	Fabrication of High-Density, Large-Area Conducting-Polymer Nanostructures. *Advanced Functional Materials*, **2006**, 16, 1937-1942	15.6	76
426	Tuning the intensity of metal-enhanced fluorescence by engineering silver nanoparticle arrays. *Small*, **2010**, 6, 1038-43	11	75
425	A novel contactless technique for thermal field mapping and thermal conductivity determination: two-laser Raman thermometry. *Review of Scientific Instruments*, **2014**, 85, 034901	1.7	74
424	Enhancement of the photonic gap of opal-based three-dimensional gratings. *Applied Physics Letters* , **1997**, 70, 2091-2093	3.4	74
423	Surface phonons in GaAs cylinders. *Semiconductor Science and Technology*, **1990**, 5, 285-290	1.8	71

422	Size dependence of the thermal broadening of the exciton linewidth in GaAs/Ga0.7Al0.3As single quantum wells. *Applied Physics Letters*, **1992**, 61, 1411-1413	3.4	68
421	Magneto-optical properties in ultrathin InAs-GaAs quantum wells. *Physical Review B*, **1994**, 50, 1604-1610	3.3	65
420	Phonon dispersion in hypersonic two-dimensional phononic crystal membranes. *Physical Review B*, **2015**, 91,	3.3	64
419	New polymer materials for nanoimprinting. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2000**, 18, 1861		63
418	Resonant add-drop filter based on a photonic quasicrystal. *Optics Express*, **2005**, 13, 826-35	3.3	60
417	Nanoimprint lithography for organic electronics. *Microelectronic Engineering*, **2002**, 61-62, 25-31	2.5	59
416	Heterostructured layered hybrid ZnO/MoS2 nanosheets with enhanced visible light photocatalytic activity. *Journal of Physics and Chemistry of Solids*, **2018**, 113, 119-124	3.9	57
415	Energy levels and exciton oscillator strength in submonolayer InAs-GaAs heterostructures. *Physical Review B*, **1995**, 51, 14346-14351	3.3	56
414	Photonic band-gap effects upon the light emission from a dye□polymer□opal composite. *Applied Physics Letters*, **1999**, 75, 1057-1059	3.4	55
413	Layer-by-Layer All-Inorganic Quantum-Dot-Based LEDs: A Simple Procedure with Robust Performance. *Advanced Functional Materials*, **2010**, 20, 3298-3302	15.6	54
412	1.3 □m luminescence and gain from defect-free InGaAs-GaAs quantum dots grown by metal-organic chemical vapour deposition. *Semiconductor Science and Technology*, **2000**, 15, 604-607	1.8	52
411	Photoluminescence of overgrown GaAs-GaAlAs quantum dots. *Superlattices and Microstructures*, **1989**, 5, 459-463	2.8	51
410	The Morphology of Graphene Sheets Treated in an Ozone Generator. *Journal of Physical Chemistry C*, **2011**, 115, 18257-18260	3.8	50
409	Nanocrystal-based luminescent composites for nanoimprinting lithography. *Small*, **2007**, 3, 822-8	11	48
408	Reverse-contact UV nanoimprint lithography for multilayered structure fabrication. *Nanotechnology*, **2007**, 18, 175303	3.4	48
407	Structuring of self-assembled three-dimensional photonic crystals by direct electron-beam lithography. *Applied Physics Letters*, **2003**, 83, 5289-5291	3.4	48
406	Elastic strains in GaAs/AlAs quantum dots studied by high-resolution x-ray diffraction. *Physical Review B*, **1995**, 52, 8348-8357	3.3	48
405	Nonlinear dynamics and chaos in an optomechanical beam. *Nature Communications*, **2017**, 8, 14965	17.4	47

404	Vanadate Conformation Variations in Vanadium Pentoxide Nanostructures. *Journal of the Electrochemical Society*, **2007**, 154, K29	3.9	47
403	Nanoimprinted passive optical devices. *Nanotechnology*, **2002**, 13, 581-586	3.4	47
402	Erasing diffraction orders: Opal versus Langmuir-Blodgett colloidal crystals. *Applied Physics Letters*, **2007**, 90, 133101	3.4	46
401	Ultra-thin free-standing single crystalline silicon membranes with strain control. *Applied Physics Letters*, **2013**, 102, 192108	3.4	44
400	Optical spectroscopic studies of InAs layer transformation on GaAs surfaces. *Physical Review B*, **1994**, 50, 12171-12174	3.3	44
399	Inelastic light scattering by longitudinal acoustic phonons in thin silicon layers: From membranes to silicon-on-insulator structures. *Physical Review B*, **2008**, 77,	3.3	43
398	Emission in a SnS2 inverted opaline photonic crystal. *Applied Physics Letters*, **2001**, 79, 731-733	3.4	43
397	Polymer issues in nanoimprinting technique. *Solid-State Electronics*, **1999**, 43, 1079-1083	1.7	42
396	A Self-Assembled 2D Thermofunctional Material for Radiative Cooling. *Small*, **2019**, 15, e1905290	11	41
395	Ordered 2D colloidal photonic crystals on gold substrates by surfactant-assisted fast-rate dip coating. *Small*, **2014**, 10, 1895-901	11	41
394	Finite element analysis of true and pseudo surface acoustic waves in one-dimensional phononic crystals. *Journal of Applied Physics*, **2016**, 119, 025308	2.5	41
393	Nanopillars photonic crystal waveguides. *Optics Express*, **2004**, 12, 617-22	3.3	40
392	Raman scattering of coupled longitudinal optical phonon-plasmon modes in dry etched n+-GaAs. *Journal of Applied Physics*, **1992**, 71, 3754-3759	2.5	40
391	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	6.4	39
390	Structural characterisation of slightly Fe-doped SrTiO3 grown via a sol□gel hydrothermal synthesis. *Journal of Sol-Gel Science and Technology*, **2015**, 75, 593-601	2.3	39
389	Growth and characterisation of quantum wells and selectively doped heterostructures of InP/Ga0.47In0.53As grown by solid source MBE. *Journal of Crystal Growth*, **1987**, 81, 288-295	1.6	39
388	Enhancement Photocatalytic Activity of the Heterojunction of Two-Dimensional Hybrid Semiconductors ZnO/V2O5. *Catalysts*, **2018**, 8, 374	4	38
387	Electrocatalytic tuning of biosensing response through electrostatic or hydrophobic enzyme-graphene oxide interactions. *Biosensors and Bioelectronics*, **2014**, 61, 655-62	11.8	37

386	Electrical detection of spin precession in freely suspended graphene spin valves on cross-linked poly(methyl methacrylate). *Small*, **2013**, 9, 156-60	11	37
385	Novel quantum confined structures via atmospheric pressure MOCVD growth in asbestos and opals. *Journal of Crystal Growth*, **1997**, 170, 611-615	1.6	37
384	Three Dimensional Photonic Crystals in the Visible Regime. *Progress in Electromagnetics Research*, **2003**, 41, 307-335	3.8	37
383	Observations of confined acoustic phonons in silicon membranes. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2004**, 1, 2609-2612		37
382	Radiative recombination in GaAs-AlxGa1⊠As quantum dots. *Applied Physics Letters*, **1992**, 61, 946-948	3.4	37
381	Mechanisms behind the enhancement of thermal properties of graphene nanofluids. *Nanoscale*, **2018**, 10, 15402-15409	7.7	36
380	Nanoscale pillar hypersonic surface phononic crystals. *Physical Review B*, **2016**, 94,	3.3	35
379	Optomechanic interaction in a corrugated phoxonic nanobeam cavity. *Physical Review B*, **2014**, 89,	3.3	35
378	(2+1)-dimensional photonic crystals from Langmuir-Blodgett colloidal multilayers. *Applied Physics Letters*, **2006**, 89, 043105	3.4	35
377	Thermal conductivity and air-mediated losses in periodic porous silicon membranes at high temperatures. *Nature Communications*, **2017**, 8, 415	17.4	34
376	Surface-directed dewetting of a block copolymer for fabricating highly uniform nanostructured microdroplets and concentric nanorings. *ACS Nano*, **2011**, 5, 1073-85	16.7	34
375	Integration of self-assembled three-dimensional photonic crystals onto structured silicon wafers. *Langmuir*, **2006**, 22, 7378-83	4	34
374	Design of Hierarchical Surfaces for Tuning Wetting Characteristics. *ACS Applied Materials & Interfaces*, **2017**, 9, 7701-7709	9.5	33
373	Novel linear and crosslinking polymers for nanoimprinting with high etch resistance. *Microelectronic Engineering*, **2000**, 53, 411-414	2.5	33
372	Optical properties of ordered three-dimensional arrays of structurally confined semiconductors. *Journal of Crystal Growth*, **1996**, 159, 857-860	1.6	33
371	Study of the kinetics and mechanism of rapid self-assembly in block copolymer thin films during solvo-microwave annealing. *Langmuir*, **2014**, 30, 10728-39	4	32
370	Nanoscale imaging of InN segregation and polymorphism in single vertically aligned InGaN/GaN multi quantum well nanorods by tip-enhanced Raman scattering. *Nano Letters*, **2013**, 13, 3205-12	11.5	32
369	Multicolor Emission on Prepatterned Substrates Using a Single Dye Species. *Advanced Materials*, **2007**, 19, 2119-2123	24	32

368	Thermal conductivity of MoS 2 polycrystalline nanomembranes. *2D Materials*, **2016**, 3, 035016	5.9	32
367	Optical and mechanical properties of nanofibrillated cellulose: Toward a robust platform for next-generation green technologies. *Carbohydrate Polymers*, **2015**, 126, 40-6	10.3	31
366	Polymer stamps for nanoimprinting. *Microelectronic Engineering*, **2002**, 61-62, 393-398	2.5	31
365	Probing the electron-phonon coupling in ozone-doped graphene by Raman spectroscopy. *Physical Review B*, **2010**, 82,	3.3	30
364	Two-dimensional polymer photonic crystal band-edge lasers fabricated by nanoimprint lithography. *Applied Physics Letters*, **2007**, 91, 151101	3.4	30
363	Structure-related optical properties of luminescent hetero-opals. *Journal of Applied Physics*, **2004**, 95, 1029-1035	2.5	30
362	Reflectivity behavior of opals of gold nanoparticle coated spheres. *Applied Physics Letters*, **2004**, 84, 3960-3962	3.4	30
361	Response to Comment on Ground state exciton lasing in CdSe submonolayers inserted in a ZnSe matrix [Appl. Phys. Lett. 70, 2765 (1997)]. *Applied Physics Letters*, **1997**, 70, 2766-2767	3.4	29
360	Optical properties of self-assembled arrays of InP quantum wires confined in nanotubes of chrysotile asbestos. *Journal of Applied Physics*, **1997**, 82, 380-385	2.5	29
359	Comparative structural vibrational study of nano-urchin and nanorods of vanadium oxide. *Physica Status Solidi (B): Basic Research*, **2006**, 243, 3285-3289	1.3	29
358	A comparison of thermally and photochemically cross-linked polymers for nanoimprinting. *Microelectronic Engineering*, **2003**, 67-68, 266-273	2.5	29
357	Suppression of spontaneous emission in incomplete opaline photonic crystal. *Journal of Applied Physics*, **2002**, 91, 9426-9428	2.5	29
356	Optical properties of Si/Si0.87Ge0.13 multiple quantum well wires. *Applied Physics Letters*, **1993**, 63, 497-499	3.4	29
355	Characterization of process-induced strains in GaAs/Ga0.7Al0.3As quantum dots using room-temperature photoreflectance. *Applied Physics Letters*, **1994**, 64, 2830-2832	3.4	29
354	Nanoparticle shape anisotropy and photoluminescence properties: Europium containing ZnO as a Model Case. *Nanoscale*, **2015**, 7, 16969-82	7.7	28
353	Synchronization of Optomechanical Nanobeams by Mechanical Interaction. *Physical Review Letters*, **2019**, 123, 017402	7.4	28
352	Lasing in nanoimprinted two-dimensional photonic crystal band-edge lasers. *Applied Physics Letters*, **2013**, 102, 073101	3.4	28
351	Hypersonic phonon propagation in one-dimensional surface phononic crystal. *Applied Physics Letters*, **2014**, 104, 123108	3.4	28

350	Understanding of transmission in the range of high-order photonic bands in thin opal film. *Applied Physics Letters*, **2008**, 92, 191106	3.4	28
349	Suitability of new polymer materials with adjustable glass temperature for nano-imprinting. *Microelectronic Engineering*, **1999**, 46, 431-434	2.5	28
348	Thermal transport in suspended silicon membranes measured by laser-induced transient gratings. *AIP Advances*, **2016**, 6, 121903	1.5	28
347	Noise-Assisted Crystallization of Opal Films. *Advanced Functional Materials*, **2012**, 22, 1812-1821	15.6	27
346	Quantitative analysis of lattice ordering in thin film opal-based photonic crystals. *Advanced Functional Materials*, **2008**, 18, 2471-2479	15.6	27
345	Self-assembly of three-dimensional photonic crystals on structured silicon wafers. *Applied Physics Letters*, **2002**, 81, 2689-2691	3.4	27
344	Record Low Thermal Conductivity of Polycrystalline MoS Films: Tuning the Thermal Conductivity by Grain Orientation. *ACS Applied Materials & Interfaces*, **2017**, 9, 37905-37911	9.5	26
343	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. *ACS Applied Materials & Interfaces*, **2013**, 5, 8195-202	9.5	26
342	The formation of nanotubes and nanocoils of molybdenum disulphide. *Applied Surface Science*, **2007**, 253, 5185-5190	6.7	26
341	Modification of the spontaneous emission of CdTe nanocrystals in TiO2 inverted opals. *Journal of Applied Physics*, **2003**, 94, 1205-1210	2.5	26
340	Photoluminescence of molecular beam epitaxial grown Al0.48In0.52As. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1994**, 12, 1319		26
339	Raman Scattering of Reactive-ion Etched GaAs. *Journal of Modern Optics*, **1988**, 35, 365-370	1.1	26
338	Fabrication of phononic crystals on free-standing silicon membranes. *Microelectronic Engineering*, **2016**, 149, 41-45	2.5	25
337	Effects of lithium on the human erythrocyte membrane and molecular models. *Biophysical Chemistry*, **2007**, 129, 36-42	3.5	25
336	Artificially inscribed defects in opal photonic crystals. *Microelectronic Engineering*, **2005**, 78-79, 429-435	2.5	25
335	Surface plasmon resonance in gold nanoparticle infiltrated dielectric opals. *Journal of Applied Physics*, **2005**, 97, 086103	2.5	25
334	Periodic thin-film interference filters as one-dimensional photonic crystals. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2001**, 91, 484-489	0.7	25
333	2D Phononic Crystals: Progress and Prospects in Hypersound and Thermal Transport Engineering. *Advanced Functional Materials*, **2020**, 30, 1904434	15.6	25

332	Fabrication of highly ordered sub-20 nm silicon nanopillars by block copolymer lithography combined with resist design. *Journal of Materials Chemistry C*, **2013**, 1, 3544	7.1	24
331	Three-dimensional phonon confinement in CdSe microcrystallites in glass. *Semiconductor Science and Technology*, **1995**, 10, 807-812	1.8	24
330	Optical properties of Si/Si1-xGex heterostructure based wires. *Solid State Communications*, **1993**, 85, 199-202	1.6	24
329	X-ray scattering from a single-quantum-well heterostructure. *Semiconductor Science and Technology* , **1987**, 2, 241-243	1.8	24
328	Orthotropic Piezoelectricity in 2D Nanocellulose. *Scientific Reports*, **2016**, 6, 34616	4.9	23
327	A self-stabilized coherent phonon source driven by optical forces. *Scientific Reports*, **2015**, 5, 15733	4.9	23
326	Intercalation of Europium (III) species into bentonite. *Materials Research Bulletin*, **2006**, 41, 1185-1191	5.1	23
325	Photoluminescence and photoreflectance study of Si/Si0.91Ge0.09 andSi9/Ge6 quantum dots. *Journal of Electronic Materials*, **1995**, 24, 99-106	1.9	23
324	High-resolution dry etching of zinc telluride: characterization of etched surfaces by X-ray photoelectron spectroscopy, photoluminescence and Raman scattering. *Semiconductor Science and Technology*, **1991**, 6, A115-A122	1.8	23
323	Nanostructured p-type Cr/V2O5 thin films with boosted thermoelectric properties. *Journal of Materials Chemistry A*, **2014**, 2, 6456-6462	13	22
322	An investigation into the growth conditions and defect states of laminar ZnO nanostructures. *Journal of Materials Chemistry*, **2008**, 18, 5259		22
321	Atomic Layer Structure of Vanadium Oxide Nanotubes Grown on Nanourchin Structures. *Electrochemical and Solid-State Letters*, **2007**, 10, A111		22
320	Two-dimensional excitonic emission in InAs submonolayers. *Physical Review B*, **1996**, 54, 16919-16924	3.3	22
319	Fabrication and characterization of one dimensional hole gas. *Superlattices and Microstructures*, **1992**, 12, 535-537	2.8	22
318	Anderson Photon-Phonon Colocalization in Certain Random Superlattices. *Physical Review Letters*, **2019**, 122, 043903	7.4	21
317	Nanoarchitecture Effects on Persistent Room Temperature Photoconductivity and Thermal Conductivity in Ceramic Semiconductors: Mesoporous, Yolk□hell, and Hollow ZnO Spheres. *Crystal Growth and Design*, **2014**, 14, 4593-4601	3.5	21
316	Towards thiol functionalization of vanadium pentoxide nanotubes using gold nanoparticles. *Materials Research Bulletin*, **2007**, 42, 674-685	5.1	21
315	Spontaneous emission control of colloidal nanocrystals using nanoimprinted photonic crystals. *Applied Physics Letters*, **2007**, 90, 011115	3.4	21

314	Reactive ion etching of II-VI semiconductors using a mixture of methane and hydrogen. *Electronics Letters*, **1991**, 27, 73-75	1.1	21
313	Photoluminescence enhancement in nanoimprinted photonic crystals and coupled surface plasmons. *Optics Express*, **2007**, 15, 7190-5	3.3	20
312	Light emission in a directional photonic bandgap. *Physica Status Solidi A*, **2003**, 197, 662-672		20
311	A study of the growth of CdSexS1-xcrystallites within a glass matrix. *Semiconductor Science and Technology*, **1994**, 9, 1839-1842	1.8	20
310	Reactive ion etching induced damage in GaAs and Al0.3Ga0.7As using SiCl4. *Semiconductor Science and Technology*, **1992**, 7, 1189-1198	1.8	20
309	Measurement and modeling of the effective thermal conductivity of sintered silver pastes. *International Journal of Thermal Sciences*, **2016**, 108, 185-194	4.1	20
308	Hierarchical surfaces for enhanced self-cleaning applications. *Journal of Micromechanics and Microengineering*, **2017**, 27, 045020	2	19
307	Design of a Multifunctional Nanoengineered PLLA Surface by Maximizing the Synergies between Biochemical and Surface Design Bactericidal Effects. *ACS Omega*, **2018**, 3, 1509-1521	3.9	19
306	Elastic Properties of Few Nanometers Thick Polycrystalline MoS Membranes: A Nondestructive Study. *Nano Letters*, **2017**, 17, 7647-7651	11.5	19
305	Site-Selective Self-Assembly of Colloidal Photonic Crystals. *Advanced Functional Materials*, **2009**, 19, 1247-1253	15	19
304	Submicron three-dimensional structures fabricated by reverse contact UV nanoimprint lithographya). *Journal of Vacuum Science & Technology B*, **2006**, 24, 3002		19
303	Emission stimulation in a directional band gap of a CdTe-loaded opal photonic crystal. *Physical Review E*, **2004**, 69, 046606	2.4	19
302	Elastic relaxation of dry-etched Si/SiGe quantum dots. *Physical Review B*, **1998**, 58, 4825-4831	3.3	19
301	Optical spectroscopy of self-organized nanoscale hetero-structures involving high-index surfaces. *Microelectronics Journal*, **1995**, 26, 871-879	1.8	19
300	Quantifying the Robustness of Topological Slow Light. *Physical Review Letters*, **2021**, 126, 027403	7.4	19
299	Photoluminescence enhancement in metallic nanocomposite printable polymer. *Journal of Vacuum Science & Technology B*, **2007**, 25, 2642		18
298	Functional patterns obtained by nanoimprinting lithography and subsequent growth of polymer brushes. *Nanotechnology*, **2007**, 18, 215301	3.4	18
297	Structural investigations of GaAs/AlAs quantum wires and quantum dots by X-ray reciprocal space mapping. *Journal Physics D: Applied Physics*, **1995**, 28, A195-A199	3	18

296	Nanometer fabrication techniques for wide-gap II-VI semiconductors and their optical characterization. *Journal of Electronic Materials*, **1994**, 23, 289-298	1.9	18
295	Effect of the annealing on the power factor of un-doped cold-pressed SnSe. *Applied Thermal Engineering*, **2017**, 111, 1426-1432	5.8	17
294	Epitaxial growth of visible to infra-red transparent conducting In2O3 nanodot dispersions and reversible charge storage as a Li-ion battery anode. *Nanotechnology*, **2013**, 24, 065401	3.4	17
293	Three-dimensional polymer structures fabricated by reversal ultraviolet-curing imprint lithography. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2005**, 23, 2954		17
292	Emission properties of dye-polymer-opal photonic crystals. *Journal of Lightwave Technology*, **1999**, 17, 2121-2127	4	17
291	Room temperature electroluminescence of nanofabricated Si□i1□Gexquantum dot diodes. *Superlattices and Microstructures*, **1996**, 20, 505-511	2.8	17
290	Multiple-phonon relaxation in GaAs-AlGaAs quantum well dots. *Journal of Applied Physics*, **1993**, 74, 5047-5052	2.5	17
289	Acoustic phonon propagation in ultra-thin Si membranes under biaxial stress field. *New Journal of Physics*, **2014**, 16, 073024	2.9	16
288	Residual layer thickness in nanoimprint: Experiments and coarse-grain simulation. *Microelectronic Engineering*, **2008**, 85, 846-849	2.5	16
287	Micromoulding of three-dimensional photonic crystals on silicon substrates. *Nanotechnology*, **2003**, 14, 323-326	3.4	16
286	Raman spectroscopy of dry etched Si?Si1□Gex quantum dots. *Solid State Communications*, **1995**, 94, 369-372	1.6	16
285	GaAs micrometer-sized dot imaging by Raman microscopy. *Journal of Applied Physics*, **1993**, 74, 5907-5909	2.5	16
284	High-temperature silicon thermal diode and switch. *Nano Energy*, **2020**, 78, 105261	17.1	16
283	Order quantification of hexagonal periodic arrays fabricated by in situ solvent-assisted nanoimprint lithography of block copolymers. *Nanotechnology*, **2014**, 25, 175703	3.4	15
282	Zinc Oxide Nanostructures by Solvothermal Synthesis. *Molecular Crystals and Liquid Crystals*, **2012**, 555, 40-50	0.5	15
281	Numerical characterization of nanopillar photonic crystal waveguides and directional couplers. *Optical and Quantum Electronics*, **2005**, 37, 331-341	2.4	15
280	Electromodulation spectroscopy of an array of modulation-doped GaAs/Ga1-xAlxAs quantum dots: Experiment and theory. *Physical Review B*, **1994**, 50, 10962-10969	3.3	15
279	Optical emission and Raman scattering in modulation-doped gaAs-AlGaAs quantum wires and dots. *Superlattices and Microstructures*, **1994**, 15, 23	2.8	15

278	Photoluminescence intensity and multiple phonon Raman scattering in quantum dots: evidence of the bottleneck effect. *Surface Science*, **1994**, 305, 585-590	1.8	15
277	Coherent generation and detection of acoustic phonons in topological nanocavities. *APL Photonics*, **2019**, 4, 030805	5.2	14
276	Heterostructured 2D ZnO hybrid nanocomposites sensitized with cubic Cu2O nanoparticles for sunlight photocatalysis. *Journal of Materials Science*, **2019**, 54, 13523-13536	4.3	14
275	Modification of Akhieser mechanism in Si nanomembranes and thermal conductivity dependence of theQ-factor of high frequency nanoresonators. *Semiconductor Science and Technology*, **2014**, 29, 124010	1.8	14
274	Dynamical back-action at 5.5 GHz in a corrugated optomechanical beam. *AIP Advances*, **2014**, 4, 124601	1.5	14
273	Enhanced light extraction in ITO-free OLEDs using double-sided printed electrodes. *Nanoscale*, **2012**, 4, 3495-500	7.7	14
272	Zinc oxide/carboxylic acid lamellar structures. *Materials Research Bulletin*, **2011**, 46, 2191-2195	5.1	14
271	Semiconducting properties of layered cadmium sulphide-based hybrid nanocomposites. *Nanoscale Research Letters*, **2011**, 6, 523	5	14
270	Lanthanides□lay nanocomposites: Synthesis, characterization and optical properties. *Materials Research Bulletin*, **2009**, 44, 1191-1194	5.1	14
269	Nanoimprinted photonic crystals for the modification of the (CdSe)ZnS nanocrystals light emission. *Microelectronic Engineering*, **2007**, 84, 1574-1577	2.5	14
268	Inelastic light scattering from electronic excitations in quantum dots. *Journal of Electronic Materials* , **2000**, 29, 576-585	1.9	14
267	Exciton polaritons in a cylindrical microcavity with an embedded quantum wire. *Physical Review B*, **2000**, 61, 13791-13797	3.3	14
266	Interface structure of GaAs/AlAs superlattices grown on (113) surfaces: Raman scattering studies. *Solid State Communications*, **1995**, 94, 613-617	1.6	14
265	Spectroscopy of individual quantum structures with low-temperature near field optical microscopy. *Superlattices and Microstructures*, **1995**, 17, 15-18	2.8	14
264	Thermoreflectance techniques and Raman thermometry for thermal property characterization of nanostructures. *Journal of Applied Physics*, **2020**, 128, 131101	2.5	14
263	Crossover from ballistic to diffusive thermal transport in suspended graphene membranes. *2D Materials*, **2019**, 6, 025034	5.9	13
262	Pressure induced anisotropy of electrical conductivity in polycrystalline molybdenum disulfide. *Applied Surface Science*, **2006**, 252, 7941-7947	6.7	13
261	Embedded polymer waveguides: design and fabrication approaches. *Superlattices and Microstructures*, **2004**, 36, 201-210	2.8	13

260	Materials for polymer electronics applications □semiconducting polymer thin films and nanoparticles. *Macromolecular Symposia*, **2004**, 212, 83-92	0.8	13
259	NanoElectronics roadmap for Europe: From nanodevices and innovative materials to system integration. *Solid-State Electronics*, **2019**, 155, 7-19	1.7	12
258	Residual layer-free Reverse Nanoimprint Lithography on silicon and metal-coated substrates. *Microelectronic Engineering*, **2015**, 141, 56-61	2.5	12
257	Stamp replication for thermal and UV nanoimprint lithography using a UV-sensitive silsesquioxane resist. *Microelectronic Engineering*, **2009**, 86, 776-778	2.5	12
256	RT lasing and efficient optical confinement in CdSe/ZnMgSSe submonolayer superlattices. *Journal of Crystal Growth*, **1998**, 184-185, 545-549	1.6	12
255	Low-dimensional, hinged bar-code metal oxide layers and free-standing, ordered organic nanostructures from turbostratic vanadium oxide. *Small*, **2008**, 4, 990-1000	11	12
254	Fluorescence microscopy for quality control in nanoimprint lithography. *Microelectronic Engineering* , **2003**, 67-68, 623-628	2.5	12
253	Fabrication of semiconductor-and polymer-based photonic crystals using nanoimprint lithography. *Technical Physics*, **2005**, 50, 1043-1047	0.5	12
252	Nanoimprint techniques **2002**, 1-60		12
251	Process-induced strains in dry etched semiconductor nanostructures studied by photoreflectance. *Journal of Applied Physics*, **1995**, 77, 6481-6484	2.5	12
250	Response to Comment: □omment on □ptical characterization of submonolayer and monolayer InAs structures grown in a GaAs matrix on (100) and high-index surfaces□[Appl. Phys. Lett. 66, 111 (1995)]. *Applied Physics Letters*, **1995**, 66, 112-113	3.4	12
249	Very low damage etching of GaAs. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1993**, 11, 2237		12
248	Metallic nanoparticles enhanced the spontaneous emission of semiconductor nanocrystals embedded in nanoimprinted photonic crystals. *Nanoscale*, **2013**, 5, 239-45	7.7	11
247	Experimental Evidence of Non-Diffusive Thermal Transport in Si and GaAs. *Materials Research Society Symposia Proceedings*, **2011**, 1347, 1		11
246	Soft Graphoepitaxy of Hexagonal PS-b-PDMS on Nanopatterned POSS Surfaces fabricated by Nanoimprint Lithography. *Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]*, **2012**, 25, 239-244	0.7	11
245	Electromagnetic theory of the coupling of zero-dimensional exciton and photon states: A quantum dot in a spherical microcavity. *Physical Review B*, **2001**, 64,	3.3	11
244	Thin film photonic crystals. *Synthetic Metals*, **2001**, 116, 475-479	3.6	11
243	Elastic strain and enhanced light emission in dry etched Si/Si1-xGex quantum dots. *Journal of Electronic Materials*, **1996**, 25, 287-291	1.9	11

242	Enhancement of Thermal Boundary Conductance of Metal-Polymer System. *Nanomaterials*, **2020**, 10,	5.4	11
241	Raman thermometry analysis: Modelling assumptions revisited. *Applied Thermal Engineering*, **2018**, 130, 1175-1181	5.8	11
240	Modification of the Raman Spectra in Graphene-Based Nanofluids and Its Correlation with Thermal Properties. *Nanomaterials*, **2019**, 9,	5.4	10
239	Self-sustained coherent phonon generation in optomechanical cavities. *Journal of Optics (United Kingdom)*, **2016**, 18, 094006	1.7	10
238	Tensile strain mapping in flat germanium membranes. *Applied Physics Letters*, **2014**, 104, 172107	3.4	10
237	Optical transmission in triple-film hetero-opals. *Journal of Applied Physics*, **2008**, 104, 013527	2.5	10
236	Six-fold rotationally symmetric vanadium oxide nanostructures by a morphotropic phase transition. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 4157-4160	1.3	10
235	Exploring integration prospects of opal-based photonic crystals. *Synthetic Metals*, **2003**, 139, 701-704	3.6	10
234	Dye-Polymer□Opal Composites as Photonic Crystals. *Physica Status Solidi (B): Basic Research*, **1999**, 215, 307-312	1.3	10
233	X-ray reciprocal space mapping of GaAs/AlAs quantum wires and quantum dots. *Applied Physics Letters*, **1995**, 66, 947-949	3.4	10
232	Magnetically confined plasma reactive ion etching of GaAs/AlGaAs/AlAs quantum nanostructures. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1994**, 12, 3388		10
231	Luminescence studies from wires of varying aspect ratio in GaAs/GaAlAs quantum wells. *Surface Science*, **1992**, 263, 622-627	1.8	10
230	Soft-graphoepitaxy using nanoimprinted polyhedral oligomeric silsesquioxane substrates for the directed self-assembly of PS-b-PDMS. *European Polymer Journal*, **2013**, 49, 3512-3521	5.2	9
229	Direct top-down ordering of diblock copolymers through nanoimprint lithography. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2011**, 29, 06F208	1.3	9
228	Resonant photoluminescence from modulation-doped InAs□GaAs quantum dots. *Superlattices and Microstructures*, **1997**, 21, 509-516	2.8	9
227	Modification of emission of CdTe nanocrystals by the local field of Langmuir□lodgett colloidal photonic crystals. *Journal of Applied Physics*, **2008**, 104, 103118	2.5	9
226	Forward scattering of light in thin opal films. *Physical Review E*, **2004**, 69, 046611	2.4	9
225	Optical properties of Si-Si1□Gex and Si-Ge nanostructures. *Journal of Materials Science: Materials in Electronics*, **1995**, 6, 356-362	2.1	9

224	Magneto-optical properties of InAs monolayers and InyAl1−yAs self-assembled quantum dots in Ga(Al)As matrices. *Physica B: Condensed Matter*, **1996**, 227, 378-383	2.8	9
223	Damage, Strain and Quantum Confinement Issues in Dry Etched Semiconductor Nanostructures. *Materials Research Society Symposia Proceedings*, **1995**, 405, 99		9
222	Linear and nonlinear optical properties of CdSexS1−x microcrystallites. *Superlattices and Microstructures*, **1991**, 9, 421-426	2.8	9
221	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	4.3	9
220	Bottom-Up Development of Nanoimprinted PLLA Composite Films with Enhanced Antibacterial Properties for Smart Packaging Applications. *Macromol*, **2021**, 1, 49-63		9
219	A Hooke?s law-based approach to protein folding rate. *Journal of Theoretical Biology*, **2015**, 364, 407-17	2.3	8
218	A hybrid organic–inorganic layered TiO2 based nanocomposite for sunlight photocatalysis. *RSC Advances*, **2016**, 6, 18538-18541	3.7	8
217	Nanocrystalline silicon optomechanical cavities. *Optics Express*, **2018**, 26, 9829-9839	3.3	8
216	Nanoimprinted plasmonic crystals for light extraction applications. *Microelectronic Engineering*, **2010**, 87, 1367-1369	2.5	8
215	Benchmarking of 50nm features in thermal nanoimprint. *Journal of Vacuum Science & Technology B*, **2007**, 25, 2373		8
214	Pressure Induced Anisotropic Electrical Conductivity in Vanadium (V) Oxide-Based Tubular Structures. *Molecular Crystals and Liquid Crystals*, **2004**, 416, 49-59	0.5	8
213	Magnetically confined plasma reactive ion etching and photoluminescence of GaAs quantum wires. *Semiconductor Science and Technology*, **1995**, 10, 1404-1407	1.8	8
212	Quantitative analysis of elastic strains in GaAs/AlAs quantum dots. *Physica B: Condensed Matter*, **1996**, 227, 11-16	2.8	8
211	Far infrared magneto-optics of InAs1-xPxalloys under hydrostatic pressure. *Semiconductor Science and Technology*, **1987**, 2, 323-328	1.8	8
210	Raman scattering investigations of the damage caused by reactive-ion-etching of GaAs. *Superlattices and Microstructures*, **1988**, 4, 243-244	2.8	8
209	Highly-Scattering Cellulose-Based Films for Radiative Cooling.. *Advanced Science*, **2022**, e2104758	13.6	8
208	Antibacterial activity testing methods for hydrophobic patterned surfaces. *Scientific Reports*, **2021**, 11, 6675	4.9	8
207	Integrated 3D Hydrogel Waveguide Out-Coupler by Step-and-Repeat Thermal Nanoimprint Lithography: A Promising Sensor Device for Water and pH. *Sensors*, **2018**, 18,	3.8	8

206	Thermal conductivity of epitaxially grown InP: experiment and simulation. *CrystEngComm*, **2017**, 19, 1879-1887	3.3	7
205	In-line metrology for roll-to-roll UV assisted nanoimprint lithography using diffractometry. *APL Materials*, **2018**, 6, 058502	5.7	7
204	Impact of the rise in hydrogen partial pressure on graphene shape evolution during CVD growth of graphene. *RSC Advances*, **2018**, 8, 8234-8239	3.7	7
203	Composites of Laminar Nanostructured ZnO and VOx-Nanotubes Hybrid as Visible Light Active Photocatalysts. *Catalysts*, **2018**, 8, 93	4	7
202	A physics-based scoring function for protein structural decoys: Dynamic testing on targets of CASP-ROLL. *Chemical Physics Letters*, **2014**, 610-611, 135-140	2.5	7
201	High quality single crystal Ge nano-membranes for opto-electronic integrated circuitry. *Journal of Applied Physics*, **2014**, 115, 144307	2.5	7
200	Spatial mapping of exciton lifetimes in single ZnO nanowires. *APL Materials*, **2013**, 1, 012103	5.7	7
199	New set of 2D/3D thermodynamic indices for proteins. A formalism based on Molten Globule theory. *Physics Procedia*, **2010**, 8, 63-72		7
198	Light extinction in bulk and thin film opal photonic crystals. *Synthetic Metals*, **2003**, 139, 601-604	3.6	7
197	Photoreflectance and photoluminescence of partially intermixed GaAs/AlGaAs double quantum wells. *Journal of Applied Physics*, **1994**, 76, 5434-5438	2.5	7
196	Ferromagnetic Resonance Assisted Optomechanical Magnetometer. *Physical Review Letters*, **2020**, 125, 147201	7.4	7
195	Layered Nanocomposite 2D-TiO2 with Cu2O Nanoparticles as an Efficient Photocatalyst for 4-Chlorophenol Degradation and Hydrogen Evolution. *Topics in Catalysis*, **2021**, 64, 167-180	2.3	7
194	Optical modulation of coherent phonon emission in optomechanical cavities. *APL Photonics*, **2018**, 3, 126102	5.2	7
193	Optomechanical coupling in the Anderson-localization regime. *Physical Review B*, **2017**, 95,	3.3	6
192	Thermal transport in epitaxial Si Ge alloy nanowires with varying composition and morphology. *Nanotechnology*, **2017**, 28, 505704	3.4	6
191	Thermal conductivity in disordered porous nanomembranes. *Nanotechnology*, **2019**, 30, 265401	3.4	6
190	Light Scattering Investigation of 2D and 3D Opal Template Formation on Hydrophilized Surfaces. *ECS Transactions*, **2014**, 58, 9-18	1	6
189	Formation of Titanium Nanostructures on Block Copolymer Templates with Varying Molecular Weights. *Macromolecules*, **2014**, 47, 8691-8699	5.5	6

188	Inline metrology configuration for sub-wavelength diffraction using microscope optics. *Microelectronic Engineering*, **2009**, 86, 1036-1039	2.5	6
187	Chemosorption-related shift of a photonic bandgap in photoconductive ZnO inverse opal. *Optics Letters*, **2008**, 33, 461-3	3	6
186	Functionalization of lamellar molybdenum disulphide nanocomposite with gold nanoparticles. *Applied Surface Science*, **2007**, 253, 3444-3449	6.7	6
185	Embedded nano channels fabricated by non-selective reverse contact UV nanoimprint lithography technique. *Microelectronic Engineering*, **2007**, 84, 921-924	2.5	6
184	Light scattering in opal heterojunctions. *Photonics and Nanostructures - Fundamentals and Applications*, **2006**, 4, 59-68	2.6	6
183	Photonic quasicrystals for application in WDM systems. *Physica Status Solidi (A) Applications and Materials Science*, **2005**, 202, 997-1001	1.6	6
182	Interface interactions and the photoluminescence from asbestos-templated InP quantum wires. *Superlattices and Microstructures*, **2000**, 27, 571-576	2.8	6
181	Photoluminescence and Raman spectroscopy of quantum dots. *Journal of Crystal Growth*, **1995**, 157, 280-284	1.6	6
180	Enhanced exciton binding energy in InAs monolayers grown on (311)A GaAs substrates. *Solid State Communications*, **1996**, 100, 763-767	1.6	6
179	Optical assessment of reactive ion etched ZnTe and ZnSe for nanostructures. *Surface Science*, **1992**, 267, 223-226	1.8	6
178	Thin Opaline Photonic Crystals **2001**, 253-262		6
177	Fracturing of Polycrystalline MoS2 Nanofilms. *ACS Applied Electronic Materials*, **2020**, 2, 1169-1175	4	6
176	Alternative Lithography. *Nanostructure Science and Technology*, **2003**, 1-14	0.9	6
175	Ammonium hexadeca-oxo-heptavanadate microsquares. A new member in the family of the V7O16 mixed-valence nanostructures. *New Journal of Chemistry*, **2019**, 43, 17548-17556	3.6	5
174	Unveiled electric profiles within hydrogen bonds suggest DNA base pairs with similar bond strengths. *PLoS ONE*, **2017**, 12, e0185638	3.7	5
173	Calculation of the specific heat in ultra-thin free-standing silicon membranes. *Journal of Physics: Conference Series*, **2012**, 395, 012105	0.3	5
172	Nano-scale effects on Young's modulus of nanoimprint polymers measured by photoacoustic metrology. *Journal of Physics: Conference Series*, **2010**, 214, 012049	0.3	5
171	Lattice modification and luminescence of dry-etched Si-Si1-xGex quantum dots **1997**, 3007, 170		5

170	Interface phenomena and optical properties of structurally confined InP quantum wire ensembles. *Physics of the Solid State*, **1997**, 39, 641-648	0.8	5
169	Modification of spontaneous emission of (CdSe)ZnS nanocrystals embedded in nanoimprinted photonic crystals. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 535-9	1.3	5
168	Surfactant-mediated variation of band-edge emission in CdS nanocomposites. *Photonics and Nanostructures - Fundamentals and Applications*, **2007**, 5, 45-52	2.6	5
167	Reflection, Transmission, and Scattering of Light by Photonic Crystals Based on Opal Films. *Russian Physics Journal*, **2004**, 47, 286-292	0.7	5
166	Nanoimprint-induced effects on electrical and optical properties of quantum well structures. *Microelectronic Engineering*, **2003**, 67-68, 214-220	2.5	5
165	Edge-emitting InGaAs/GaAs lasers with deeply etched semiconductor/air distributed Bragg reflector mirrors. *Semiconductor Science and Technology*, **2002**, 17, L69-L71	1.8	5
164	InGaAs-GaAs quantum dots for application in long wavelength (1.3 μm) resonant vertical cavity enhanced devices. *Journal of Electronic Materials*, **2000**, 29, 487-493	1.9	5
163	Light emission from thin opaline photonic crystals of low and high dielectric contrast. *Synthetic Metals*, **2001**, 124, 131-135	3.6	5
162	Shear strains in dry etched GaAs/AlAs wires studied by high resolution x-ray reciprocal space mapping. *Journal of Applied Physics*, **1998**, 83, 126-131	2.5	5
161	Microstructures in BaTiO3 thin films by hydrothermal growth and lift-off technique. *Materials Science in Semiconductor Processing*, **1999**, 2, 335-340	4.3	5
160	Crystalline and Quasi-crystalline Patterns in X-Ray Diffraction from Periodic Arrays of Quantum Dots. *Europhysics Letters*, **1995**, 32, 131-136	1.6	5
159	Optical spectroscopies of electronic excitations in quantum dots. *Surface Science*, **1996**, 361-362, 774-777	1.8	5
158	Resonant Raman scattering studies of multilayer (In, Ga, Al) (As, Sb) heterostructures with InAs quantum wells. *Solid State Communications*, **1994**, 91, 361-365	1.6	5
157	Photoluminescence of AlInAs under hydrostatic pressure. *Semiconductor Science and Technology*, **1989**, 4, 243-245	1.8	5
156	Optical spectroscopy of GaAs-based nanostructures. *Surface Science*, **1990**, 228, 275-279	1.8	5
155	Raman scattering from GaInAs?InP quantum well structures. *Superlattices and Microstructures*, **1987**, 3, 75-78	2.8	5
154	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	6.4	4
153	Impact of the Regularization Parameter in the Mean Free Path Reconstruction Method: Nanoscale Heat Transport and Beyond. *Nanomaterials*, **2019**, 9,	5.4	4

152	Real-time Optical Dimensional Metrology via Diffractometry for Nanofabrication. *Scientific Reports*, **2020**, 10, 5371	4.9	4
151	Enhanced thermoelectric properties of lightly Nb doped SrTiO3 thin films. *Nanoscale Advances*, **2019**, 1, 3647-3653	5.1	4
150	Self-Assembled Nanofeatures in Complex Three-Dimensional Topographies via Nanoimprint and Block Copolymer Lithography Methods. *ACS Omega*, **2017**, 2, 4417-4423	3.9	4
149	Mechanical oscillations in lasing microspheres. *Journal of Applied Physics*, **2017**, 122, 053101	2.5	4
148	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, 2161-72	3	4
147	Optical and mechanical mode tuning in an optomechanical crystal with light-induced thermal effects. *Journal of Applied Physics*, **2014**, 116, 093506	2.5	4
146	Fine control of critical dimension for the fabrication of large bandgap high frequency photonic and phononic crystals. *Microelectronic Engineering*, **2011**, 88, 2233-2235	2.5	4
145	Photoluminescence and X-ray characterisation of Si/Si1⊠Gex multiple quantum wells. *Journal of Luminescence*, **1998**, 80, 503-507	3.8	4
144	Light emission from three-dimensional ensembles of CdTe nanocrystal wires templated in nanotubes of chrysotile asbestos. *Physica E: Low-Dimensional Systems and Nanostructures*, **2007**, 37, 218-221	3	4
143	Nanoimprint lithography and surface modification as prospective technologies for heterogeneous integration. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2008**, 5, 3571-3575		4
142	Light propagation in triple-film hetero-opals. *Progress in Solid State Chemistry*, **2005**, 33, 279-286	8	4
141	Propagation and scattering of light in opal heterojunctions. *Physica E: Low-Dimensional Systems and Nanostructures*, **2006**, 32, 476-479	3	4
140	Micro and nanostructures of molybdenum trioxide (VI). *Physica Status Solidi C: Current Topics in Solid State Physics*, **2004**, 1, S58-S61		4
139	Elastic Relaxation of Pseudomorphic Strain in Quantum Dots. *Solid State Phenomena*, **1995**, 47-48, 535-540	0.4	4
138	Fabrication and characterisation of dry etched quantum dots. *Journal of Crystal Growth*, **1996**, 159, 434-437	1.8	4
137	Low-temperature emission of Al0.48In0.52As under high pressures. *Journal of Applied Physics*, **1994**, 75, 3571-3578	2.5	4
136	Reactive ion etching of InP and its optical assessment **1991**,		4
135	The optical properties of thin Al0.3Ga0.7As-GaAs quantum wells on misorientated substrates with (110) terraces. A study of interface roughness using photoluminescence. *Semiconductor Science and Technology*, **1992**, 7, 892-899	1.8	4

134	Phonon Raman scattering in GaAs-based quantum dots. *Solid State Communications*, **1993**, 88, 63-66	1.6	4
133	Room-Temperature Silicon Platform for GHz-Frequency Nanoelectro-Opto-Mechanical Systems. *ACS Photonics*,	6.3	4
132	High-Frequency Mechanical Excitation of a Silicon Nanostring with Piezoelectric Aluminum Nitride Layers. *Physical Review Applied*, **2020**, 14,	4.3	4
131	Simulations of micro-sphere/shell 2D silica photonic crystals for radiative cooling. *Optics Express*, **2021**, 29, 16857-16866	3.3	4
130	Fabrication and replication of re-entrant structures by nanoimprint lithography methods. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2018**, 36, 06JF01	1.3	4
129	Directional elastic wave propagation in high-aspect-ratio photoresist gratings: liquid infiltration and aging. *Nanoscale*, **2017**, 9, 2739-2747	7.7	3
128	Raman antenna effect from exciton-phonon coupling in organic semiconducting nanobelts. *Nanoscale*, **2017**, 9, 19328-19336	7.7	3
127	Dimensional and defectivity nanometrology of directed self-assembly patterns. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2015**, 12, 267-270		3
126	Polymer photonic band-gaps fabricated by nanoimprint lithography. *Photonics and Nanostructures - Fundamentals and Applications*, **2012**, 10, 632-635	2.6	3
125	Rechargeable Li-Ion Battery Anode of Indium Oxide with Visible to Infra-Red Transparency. *ECS Transactions*, **2013**, 53, 53-61	1	3
124	Epitaxial growth of an antireflective, conductive, graded index ITO nanowire layer. *Frontiers in Physics*, **2013**, 1,	3.9	3
123	Low temperature direct imprint of polyhedral oligomeric silsesquioxane (POSS) resist. *Microelectronic Engineering*, **2011**, 88, 1997-1999	2.5	3
122	Lattice distortion in dry-etched Si/SiGe quantum dot array studied by 2D reciprocal space mapping using synchrotron X-ray diffraction. *Thin Solid Films*, **1997**, 294, 300-303	2.2	3
121	Towards Si-based photonic circuits: Integrating photonic crystals in silicon-on-insulator platforms. *Solid-State Electronics*, **2007**, 51, 333-336	1.7	3
120	Emission pattern of planar CdTe nanocrystal light source coated by two-dimensional Langmuir-Blodgett photonic crystal. *Materials Science and Engineering C*, **2007**, 27, 968-971	8.3	3
119	Characterization of opal photonic hetero-crystals by light scattering **2006**, 6182, 66		3
118	Anisotropy of light transmission in thin film opal photonic crystals **2006**, 6182, 78		3
117	Stochastic resonance in photonic crystal growth **2007**, 6603, 480		3

116	Stimulated emission due to light localization in the bandgap of disordered opals. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2004**, 1, 1522-1530		3
115	Towards 3D metal-dielectric photonic crystal. Optical characterization. *Molecular Crystals and Liquid Crystals*, **2004**, 415, 211-219	0.5	3
114	Polymer optical devices made by reverse and 3D nanoimprint lithography **2005**,		3
113	Impact of Carrier Lateral Transport and Surface Recombination on the PL Efficiency of Mesas with Self-Organized Quantum Dots. *Physica Status Solidi A*, **2001**, 188, 955-959		3
112	Microscopic characterization of ablation craters produced by femtosecond laser pulses **2002**, 4760, 1032		3
111	Carrier relaxation mechanisms and Fermi versus non-Fermi carrier distribution in quantum dot arrays formed by activated alloy phase separation. *Nanotechnology*, **2000**, 11, 309-313	3.4	3
110	An Analysis of Residual Strain in Dry Etched Semiconductor Nanostructures. *Solid State Phenomena*, **1995**, 47-48, 613-0	0.4	3
109	Inelastic light scattering from electronic excitations in deep-etched quantum dots and wires. *Solid-State Electronics*, **1996**, 40, 339-342	1.7	3
108	Resonant exciton effects in InAs monolayer insertions in a GaAs matrix. *Journal of Applied Physics*, **1996**, 79, 7164-7168	2.5	3
107	Photoreflectance Study of Modulation-Doped GaAs/GaAlAs Quantum Dots Fabricated by Reactive-Ion Etching. *Materials Research Society Symposia Proceedings*, **1993**, 324, 187		3
106	Fabrication and Luminescence of Etched Quantum Rings and Vertically Coupled Dots. *Materials Research Society Symposia Proceedings*, **1995**, 406, 307		3
105	Optical properties of a type-II GaAs/GaP strained-layer superlattice **1992**,		3
104	Properties of nanocrystalline silicon probed by optomechanics. *Nanophotonics*, **2020**, 9, 4819-4829	6.3	3
103	Anisotropic Thermal Conductivity of Crystalline Layered SnSe. *Nano Letters*, **2021**, 21, 9172-9179	11.5	3
102	Photoluminescence from Si/Si0.87Ge0.13 multiple quantum well wires. *European Physical Journal Special Topics*, **1993**, 03, 119-122		3
101	Optomechanical crystals for spatial sensing of submicron sized particles. *Scientific Reports*, **2021**, 11, 7829	4.9	3
100	Heat Transport Control and Thermal Characterization of Low-Dimensional Materials: A Review. *Nanomaterials*, **2021**, 11,	5.4	3
99	Quantifying thermal transport in buried semiconductor nanostructures via cross-sectional scanning thermal microscopy. *Nanoscale*, **2021**, 13, 10829-10836	7.7	3

98	All-optical radio-frequency modulation of Anderson-localized modes. *Physical Review B*, **2018**, 98,	3.3	3
97	Fabrication and characterization of large-area suspended MoSe2 crystals down to the monolayer. *JPhys Materials*, **2021**, 4, 046001	4.2	3
96	Angle-Dependent Photoluminescence Spectroscopy of Solution-Processed Organic Semiconducting Nanobelts. *Journal of Physical Chemistry C*, **2017**, 121, 12441-12446	3.8	2
95	In-line metrology setup for periodic nanostructures based on sub-wavelength diffraction **2015**,		2
94	Broadband Dynamic Polarization Conversion in Optomechanical Metasurfaces. *Frontiers in Physics*, **2020**, 7,	3.9	2
93	Synthesis and photocatalytic activity of hybrid layered ZnO(myristic acid)/Ag nanoparticles. *Materials Letters*, **2016**, 181, 8-11	3.3	2
92	Nanowire forest of pnictogen-chalcogenide alloys for thermoelectricity. *Nanoscale*, **2019**, 11, 13423-13430	7.7	2
91	Synthetic Routes for the Preparation of Ordered Vanadium Oxide Inverted Opal Electrodes for Li-Ion Batteries. *ECS Transactions*, **2014**, 58, 7-14	1	2
90	Thermal Energy Harvesting **2014**, 135-219		2
89	Far-field characterization of the thermal dynamics in lasing microspheres. *Scientific Reports*, **2015**, 5, 14452	4.9	2
88	(Invited) Tuning of Heat Transport across Thin Films of Polycristalline AlN via Multiscale Structural Defects. *ECS Transactions*, **2015**, 69, 53-64	1	2
87	Defect analysis and alignment quantification of line arrays prepared by directed self-assembly of a block copolymer **2014**,		2
86	Controlling the strain and light emission from Si□Si1□Gex quantum dots. *Thin Solid Films*, **1997**, 294, 304-307	2.2	2
85	RT lasing via nanoscale CdSe islands in a (Zn,Mg)(S,Se) matrix. *Journal of Electronic Materials*, **1998**, 27, 73-76	1.9	2
84	ROTATIONAL SYMMETRY OF TRANSMISSION PATTERNS AND ORDERING OF OPAL PHOTONIC CRYSTALS. *Journal of Nonlinear Optical Physics and Materials*, **2008**, 17, 97-104	0.8	2
83	Sub-wavelength optical diffraction and photoacoustic metrologies for the characterisation of nanoimprinted structures **2008**,		2
82	Fabrication of Defect-Free Nanoimprinted Photonic Crystals for Laser Applications. *Japanese Journal of Applied Physics*, **2008**, 47, 5139-5141	1.4	2
81	Electron beam induced electronic transport in alkyl amine-intercalated VOx nanotubes. *Physica Status Solidi (B): Basic Research*, **2008**, 245, 2102-2106	1.3	2

80	Reflection of focused beams from opal photonic crystals. *Optics Express*, **2005**, 13, 2653-67	3.3	2
79	Functionalization of Bentonite by Intercalation of Surfactants. *Molecular Crystals and Liquid Crystals* , **2006**, 448, 123/[725]-131/[733]	0.5	2
78	Light propagation in opal heterojunctions **2004**,		2
77	Dynamics of doubly resonant Raman scattering and resonant luminescence in ultrathin InAs/GaAs quantum wells. *Journal of the Optical Society of America B: Optical Physics*, **1996**, 13, 1224	1.7	2
76	Elastic strains in GaAsAlAs quantum dots studied by high resolution X-ray diffraction. *Solid-State Electronics*, **1996**, 40, 373-377	1.7	2
75	Residual strain in Si-Si1⊠Gex quantum dots. *Solid-State Electronics*, **1996**, 40, 383-386	1.7	2
74	Bound Exciton, Free-To-Bound and Electron-Hole Plasma Luminescence in GaxIn1⊠P (0.54 ? x ? 0.76). *Physica Status Solidi (B): Basic Research*, **1985**, 129, 279-286	1.3	2
73	Coherent phonon generation in optomechanical crystals. *SPIE Newsroom*,		2
72	Photonic Crystals Based on Two-Layer Opaline Heterostructures. *Materials Research Society Symposia Proceedings*, **2002**, 722, 771		2
71	Non Local Corrections to the Electronic Structure of Non Ideal Electron Gases: The Case of Graphene and Tyrosine. *Journal of Modern Physics*, **2013**, 04, 522-527	0.5	2
70	Thermal Properties of Nanocrystalline Silicon Nanobeams. *Advanced Functional Materials*,2105767	15.6	2
69	Impact of surface topography on the bacterial attachment to micro- and nano-patterned polymer films.. *Surfaces and Interfaces*, **2021**, 27, 101494	4.1	2
68	Thermal transport in nanoporous holey silicon membranes investigated with optically induced transient thermal gratings. *Journal of Applied Physics*, **2020**, 128, 235106	2.5	2
67	Phonon Confinement and Electron-Phonon Interactions in Semiconductor Nanostructures **1993**, 437-446		2
66	p-type modulation-doped AlGaAs/GaAs heterostructures grown by atmospheric-pressure metal organic vapour phase epitaxy (MOVPE). *Electronics Letters*, **1987**, 23, 605-606	1.1	2
65	Localized thinning for strain concentration in suspended germanium membranes and optical method for precise thickness measurement. *AIP Advances*, **2018**, 8, 115131	1.5	2
64	Injection locking in an optomechanical coherent phonon source. *Nanophotonics*, **2021**, 10, 1319-1327	6.3	2
63	Spectroscopic and Thermal Characterization of Extra Virgin Olive Oil Adulterated with Edible Oils.. *Foods*, **2022**, 11,	4.9	2

62	Electrical properties and strain distribution of Ge suspended structures. *Solid-State Electronics*, **2015**, 108, 13-18	1.7	1
61	A diffractometer for quality control in nano fabrication processing based on subwavelength diffraction **2015**,		1
60	Acoustic Phonons in Ultrathin Free-Standing Silicon Membranes **2016**, 305-326		1
59	Thermal Isolation Through Nanostructuring **2014**, 331-363		1
58	"LaTIMA" an innovative test stand for thermal and electrical characterization of highly conductive metals, die attach, and substrate materials **2015**,		1
57	Quantified Comparison of Ordering in Self-Assembled Block Copolymer Films of Different Molecular Weights by Image Analysis Method. *Materials Research Society Symposia Proceedings*, **2012**, 1412, 20		1
56	Physical properties of thin nanoimprint polymer films measured by photo-acoustic metrology **2009**,		1
55	Energy Relaxation in Quantum Dots: Recent Developments on the Phonon Bottleneck **1996**, 287-292		1
54	RT exciton waveguiding and lasing in submonolayer CdSe/(Zn,Mg)(S,Se) structures. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **1998**, 51, 26-29	3.1	1
53	Non-linear effects in luminescence of ZnO inverted opals **2008**,		1
52	Bleaching-induced evolution of directional emission from dye-loaded opals. *Journal of Optics*, **2008**, 10, 115201		1
51	Anisotropic Vanadium Oxide Nanostructured Host Matrices for Lithium Ion Intercalation. *Research Letters in Physical Chemistry*, **2007**, 2007, 1-5		1
50	Effect of template defects in radiative energy relaxation of CdTe nanocrystals in nanotubes of chrysotile asbestos. *Microporous and Mesoporous Materials*, **2008**, 107, 212-218	5.3	1
49	P1G-4 Characterization of Nanoimprinting Polymer Films Using Picosecond Ultrasonics. *Proceedings IEEE Ultrasonics Symposium*, **2007**,		1
48	Lanthanide-Clay Nanocomposites: Europium(III) Complexes Intercalated in Bentonite. *Solid State Phenomena*, **2007**, 121-123, 1245-1248	0.4	1
47	Light reflectance in opal-based metal-dielectric photonic crystals **2004**,		1
46	Optical and structural characterization of Si/SiGe heterostructures grown by RTCVD. *Thin Solid Films*, **2000**, 369, 431-435	2.2	1
45	Optical Characterization of Cadmium Telluride Doped Heterostructured Opaline Photonic Crystal. *Materials Research Society Symposia Proceedings*, **2001**, 708, 781		1

44	Nanofabrication of II-VI Semiconductor Quantum Wires and Dots. *Materials Science Forum*, **1995**, 182-184, 87-92	0.4	1
43	Photoluminescence and electroluminescence study of Si?Si0.7Ge0.3 quantum dots. *Applied Surface Science*, **1996**, 102, 372-376	6.7	1
42	Exciton Dynamics in Ultrathin InAs/GaAs Quantum-Wells. *Materials Research Society Symposia Proceedings*, **1995**, 406, 283		1
41	Phonon raman scattering in nanostructured multiple quantum wells. *Superlattices and Microstructures*, **1992**, 12, 469-472	2.8	1
40	Magneto-transport studies in MBE-grown GaInAs?InP heterostructures under hydrostatic pressure. *Surface Science*, **1986**, 170, 464-469	1.8	1
39	Unraveling Heat Transport and Dissipation in Suspended MoSe from Bulk to Monolayer.. *Advanced Materials*, **2022**, e2108352	24	1
38	Raman Scattering of III-V and II-VI Semiconductor Microstructures. *NATO ASI Series Series B: Physics*, **1991**, 247-255		1
37	Luminescence and Raman Scattering Studies of Ga-As-AlGaAs Quantum Dots. *Springer Series in Solid-state Sciences*, **1992**, 289-299	0.4	1
36	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	1.3	1
35	Large thermoelectric power variations in epitaxial thin films of layered perovskite GdBaCo2O5.5□□ with a different preferred orientation and strain. *Journal of Materials Chemistry A*, **2020**, 8, 19975-19983	13	1
34	Titanium particle incorporation in block copolymer templates. *Polymer*, **2016**, 105, 195-202	3.9	1
33	On the Enhancement of the Thermal Conductivity of Graphene-Based Nanofluids **2018**,		1
32	Self-assembled three-dimensional inverted photonic crystals on a photonic chip. *Physica Status Solidi (A) Applications and Materials Science*, **2017**, 214, 1700039	1.6	0
31	Cavity modes and optomechanic interactions in strip waveguide. *IOP Conference Series: Materials Science and Engineering*, **2014**, 68, 012003	0.4	0
30	Silicon-based nanostructures **2002**, 387-443		0
29	Introducing surface functionality on thermoformed polymeric films. *Micro and Nano Engineering*, **2022**, 14, 100112	3.4	0
28	Optical Properties of InP Quantum Wires Grown in Hollow Cylindrical Channels of Chrysotile Asbestos **1998**, 255-270		0
27	Reversing the Humidity Response of MoS- and WS-Based Sensors Using Transition-Metal Salts. *ACS Applied Materials & Interfaces*, **2021**, 13, 23201-23209	9.5	0

26	Electron beam lithography for direct patterning of MoS on PDMS substrates.. *RSC Advances*, **2021**, 11, 19908-19913	3.7	0
25	Photonic Crystals: Ordered 2D Colloidal Photonic Crystals on Gold Substrates by Surfactant-Assisted Fast-Rate Dip Coating (Small 10/2014). *Small*, **2014**, 10, 1894-1894	11	
24	Nanoimprint Technologies **2012**, 117-140		
23	Optoelectronic properties of a fully inorganic light emitting host-guest system: CdTe nanocrystals @ layered double hydroxide films. *IOP Conference Series: Materials Science and Engineering*, **2009**, 6, 012025	0.4	
22	Resonance amplification of defect emission in ZnO-inverted opal. *Optics Letters*, **2009**, 34, 1519-21	3	
21	Optical Properties and Lasing in CdSe-Submonolayers in a (Zn,Mg)(S,Se) Matrix. *Physica Status Solidi A*, **1998**, 168, 309-315		
20	Light diffraction in nanoshell colloidal metal-dielectric photonic crystals **2006**, TuB3		
19	Inorganic Fullerenes: From Lamellar Precursors to Functionalized Nanotubes. *Solid State Phenomena*, **2007**, 121-123, 1-4	0.4	
18	Crystallization of silica opals onto patterned silicon wafer **2006**, 6182, 392		
17	Light Emitting Opal‐Based Photonic Crystal Heterojunctions **2006**, 132-152		
16	Spontaneous Light Emission from a Spherical Microcavity with a Quantum Dot. *Physica Status Solidi A*, **2002**, 190, 199-203		
15	Large Spectral Splitting of TE and TM Components of QDs in a Microcavity. *Physica Status Solidi (B): Basic Research*, **2001**, 224, 811-814	1.3	
14	Impact of the SiGe/Si interface structure upon the low temperature photoluminescence of a Si/Si1−xGex multiple quantum well. *Materials Science in Semiconductor Processing*, **2000**, 3, 389-393	4.3	
13	One-Dimensional Periodic Structures under a New Light **2001**, 173-180		
12	Optical Characterization of Cadmium Telluride Doped Heterostructured Opaline Photonic Crystal. *Materials Research Society Symposia Proceedings*, **2001**, 694, 1		
11	Optical Characterization of Cadmium Telluride Doped Heterostructured Opaline Photonic Crystal. *Materials Research Society Symposia Proceedings*, **2001**, 707, 781		
10	Optical Properties of Nano Crystalline InP in Opal 3-Dimensional Gratings. *Materials Research Society Symposia Proceedings*, **1996**, 452, 269		
9	Determination of the Strain Status of GaAs/AlAs Quantum Wires and Quantum Dots. *Materials Research Society Symposia Proceedings*, **1994**, 358, 975		

8	Three-Dimensional Active Gratings for Light Emission Control. *Materials Research Society Symposia Proceedings*, **1995**, 406, 289	
7	Dielectric-Polymer Nanocomposite and Thin Film Photonic Crystals: Towards Three-Dimensional Photonic Crystals with a Bandgap in the Visible Spectrum **2000**, 23-39	
6	Light-exciton coupling in semiconductor microcavities of cylindrical and spherical symmetry. *Springer Proceedings in Physics*, **2001**, 699-700	0.2
5	The Opal-Semiconductor System as a Possible Photonic Bandgap Material **1996**, 275-282	
4	Raman Scattering as a Diagnostic Tool of Semiconductor Nanofabrication **1997**, 331-354	
3	Non-Optical Lithography209	
2	Advances in Nanoimprint Lithography: 2-D and 3-D Nanopatterning of Surfaces by Nanoimoprint Lithography, Morphological Characterization, and Photonic Applications165	
1	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	3.2