

# Elefterios Lidorikis

## List of Publications by Citations

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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.

82

papers

6,273

citations

33

h-index

79

g-index

104

ext. papers

7,106

ext. citations

6.8

avg, IF

5.22

L-index

#	Paper	IF	Citations
82	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , <b>2015</b> , 7, 4598-810	7.7	2015
81	Rayleigh imaging of graphene and graphene layers. <i>Nano Letters</i> , <b>2007</b> , 7, 2711-7	11.5	513
80	A three-dimensional optical photonic crystal with designed point defects. <i>Nature</i> , <b>2004</b> , 429, 538-42	50.4	387
79	Surface-enhanced Raman spectroscopy of graphene. <i>ACS Nano</i> , <b>2010</b> , 4, 5617-26	16.7	384
78	Tight-Binding Parametrization for Photonic Band Gap Materials. <i>Physical Review Letters</i> , <b>1998</b> , 81, 1405-1408	14.08	184
77	Adiabatic theorem and continuous coupled-mode theory for efficient taper transitions in photonic crystals. <i>Physical Review E</i> , <b>2002</b> , 66, 066608	2.4	159
76	Surface-plasmon-assisted guiding of broadband slow and subwavelength light in air. <i>Physical Review Letters</i> , <b>2005</b> , 95, 063901	7.4	152
75	Atomistic Aspects of Crack Propagation in Brittle Materials: Multimillion Atom Molecular Dynamics Simulations. <i>Annual Review of Materials Research</i> , <b>2002</b> , 32, 377-400	12.8	148
74	Conductive nitrides: Growth principles, optical and electronic properties, and their perspectives in photonics and plasmonics. <i>Materials Science and Engineering Reports</i> , <b>2018</b> , 123, 1-55	30.9	128
73	Photothermoelectric and photoelectric contributions to light detection in metal-graphene-metal photodetectors. <i>Nano Letters</i> , <b>2014</b> , 14, 3733-42	11.5	124
72	Hybrid finite-element/molecular-dynamics/electronic-density-functional approach to materials simulations on parallel computers. <i>Computer Physics Communications</i> , <b>2001</b> , 138, 143-154	4.2	123
71	Surface Plasmon Polariton Graphene Photodetectors. <i>Nano Letters</i> , <b>2016</b> , 16, 8-20	11.5	119
70	Graphene-based mid-infrared room-temperature pyroelectric bolometers with ultrahigh temperature coefficient of resistance. <i>Nature Communications</i> , <b>2017</b> , 8, 14311	17.4	101
69	1.5 GHz picosecond pulse generation from a monolithic waveguide laser with a graphene-film saturable output coupler. <i>Optics Express</i> , <b>2013</b> , 21, 7943-50	3.3	98
68	Fast and Sensitive Terahertz Detection Using an Antenna-Integrated Graphene pn Junction. <i>Nano Letters</i> , <b>2019</b> , 19, 2765-2773	11.5	82
67	. <i>Computing in Science and Engineering</i> , <b>2001</b> , 3, 56-66	1.5	81
66	Gap deformation and classical wave localization in disordered two-dimensional photonic-band-gap materials. <i>Physical Review B</i> , <b>2000</b> , 61, 13458-13464	3.3	76

65	Raman scattering efficiency of graphene. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	71
64	Vertically Illuminated, Resonant Cavity Enhanced, Graphene-Silicon Schottky Photodetectors. <i>ACS Nano</i> , <b>2017</b> , 11, 10955-10963	16.7	70
63	Optical nonlinear response of a single nonlinear dielectric layer sandwiched between two linear dielectric structures. <i>Physical Review B</i> , <b>1997</b> , 56, 15090-15099	3.3	67
62	Coupling length scales for multiscale atomistics-continuum simulations: atomistically induced stress distributions in Si/Si <sub>3</sub> N <sub>4</sub> nanopixels. <i>Physical Review Letters</i> , <b>2001</b> , 87, 086104	7.4	66
61	Nature of lossy Bloch states in polaritonic photonic crystals. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	65
60	Photonics with multiwall carbon nanotube arrays. <i>ACS Nano</i> , <b>2009</b> , 3, 1238-48	16.7	64
59	Effect of a photonic band gap on scattering from waveguide disorder. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 3639-3641	3.4	56
58	Ultralow-power all-optical switching. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 171101	3.4	51
57	Active materials embedded in photonic crystals and coupled to electromagnetic radiation. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	45
56	Optical encoding by plasmon-based patterning: hard and inorganic materials become photosensitive. <i>Nano Letters</i> , <b>2012</b> , 12, 259-63	11.5	41
55	Theory of plasmonic near-field enhanced absorption in solar cells. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 063304	3.4	41
54	Effective medium properties and photonic crystal superstructures of metallic nanoparticle arrays. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 054304	2.5	40
53	Plasmonic Backscattering Effect in High-Efficient Organic Photovoltaic Devices. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501640	21.8	37
52	Selective modification of nanoparticle arrays by laser-induced self assembly (MONA-LISA): putting control into bottom-up plasmonic nanostructuring. <i>Nanoscale</i> , <b>2016</b> , 8, 8236-44	7.7	36
51	Few-cycle pulses from a graphene mode-locked all-fiber laser. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 253101	3.4	34
50	Wave propagation in nonlinear multilayer structures. <i>Physical Review B</i> , <b>1996</b> , 54, 10249-10252	3.3	34
49	Enhancement of microcavity lifetimes using highly dispersive materials. <i>Physical Review E</i> , <b>2005</b> , 71, 026602	3.4	33
48	Broadband optical absorption of amorphous carbon/Ag nanocomposite films and its potential for solar harvesting applications. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 117, 350-356	6.4	31

47	Stable, Surfactant-Free Graphene/Styrene Methylmethacrylate Composite for Ultrafast Lasers. <i>Advanced Optical Materials</i> , <b>2016</b> , 4, 1088-1097	8.1	29
46	Plasmonic spectral tunability of conductive ternary nitrides. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 263110	3.4	29
45	Polarization-independent linear waveguides in 3D photonic crystals. <i>Physical Review Letters</i> , <b>2003</b> , 91, 023902	7.4	26
44	Optical bistability in colloidal crystals. <i>Physical Review E</i> , <b>1997</b> , 55, 3613-3618	2.4	23
43	Hot Electrons Modulation of Third-Harmonic Generation in Graphene. <i>ACS Photonics</i> , <b>2019</b> , 6, 2841-2849	6.3	22
42	Design of high-temperature solar-selective coatings for application in solar collectors. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 170, 102-113	6.4	21
41	Electronic Structure-Dependent Surface Plasmon Resonance in Single Au-Fe Nanoalloys. <i>Nano Letters</i> , <b>2019</b> , 19, 5754-5761	11.5	20
40	Plasmonic Organic Photovoltaics: Unraveling Plasmonic Enhancement for Realistic Cell Geometries. <i>ACS Photonics</i> , <b>2018</b> , 5, 1440-1452	6.3	19
39	Plasmonic antenna coupling to hyperbolic phonon-polaritons for sensitive and fast mid-infrared photodetection with graphene. <i>Nature Communications</i> , <b>2020</b> , 11, 4872	17.4	19
38	3D-to-2D Morphology Manipulation of Sputter-Deposited Nanoscale Silver Films on Weakly Interacting Substrates via Selective Nitrogen Deployment for Multifunctional Metal Contacts. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 4728-4738	5.6	17
37	Theoretical study of phenyl-substituted indacenodithiophene copolymers for high performance organic photovoltaics. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 064901	3.9	16
36	Three-Dimensional Colloidal Crystal Arrays Exhibiting Stop Band in Near-Infrared Region. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 16389-16394	3.8	16
35	Cutoff solitons in axially uniform systems. <i>Optics Letters</i> , <b>2004</b> , 29, 851-3	3	15
34	The interplay between surface charging and microscale roughness during plasma etching of polymeric substrates. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 073303	2.5	14
33	Roughness Evolution and Charging in Plasma-Based Surface Engineering of Polymeric Substrates: The Effects of Ion Reflection and Secondary Electron Emission. <i>Micromachines</i> , <b>2018</b> , 9,	3.3	14
32	Surface-Enhanced Raman Spectroscopy of Graphene Integrated in Plasmonic Silicon Platforms with Three-Dimensional Nanotopography. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 3076-3087	3.8	13
31	Pulse-driven switching in one-dimensional nonlinear photonic band gap materials: a numerical study. <i>Physical Review E</i> , <b>2000</b> , 61, 5825-9	2.4	13
30	Modeling of enhanced absorption and Raman scattering caused by plasmonic nanoparticle near fields. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2012</b> , 113, 2573-2584	2.1	12

29	Optical bistability and cutoff solitons in photonic bandgap fibers. <i>Optics Express</i> , <b>2004</b> , 12, 1518-27	3.3	12
28	Flat-band localization and self-collimation of light in photonic crystals. <i>Scientific Reports</i> , <b>2019</b> , 9, 2862	4.9	11
27	Formation of plasmonic colloidal silver for flexible and printed electronics using laser ablation. <i>Applied Surface Science</i> , <b>2015</b> , 336, 262-266	6.7	11
26	Impurity modes in a two-dimensional photonic crystal: coupling efficiency and Q factor. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2000</b> , 17, 2037	1.7	11
25	Point defect geometries in inverted opal photonic crystals. <i>Physical Review E</i> , <b>2005</b> , 71, 056602	2.4	10
24	Rapid Photonic Processing of High-Electron-Mobility PbS Colloidal Quantum Dot Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 31591-31600	9.5	9
23	Wave propagation in linear and nonlinear structures. <i>Physica D: Nonlinear Phenomena</i> , <b>1998</b> , 113, 346-365	3.3	9
22	Sub-surface laser nanostructuring in stratified metal/dielectric media: a versatile platform towards flexible, durable and large-scale plasmonic writing. <i>Nanotechnology</i> , <b>2015</b> , 26, 155301	3.4	8
21	Deep and fast free-space electro-absorption modulation in a mobility-independent graphene-loaded Bragg resonator. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 011102	3.4	8
20	Influence of laser annealing on the structural properties of sputtered AlN:Ag plasmonic nanocomposites. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 3996-4006	4.3	7
19	Composite Nanoparticles. <i>Journal of Chemistry</i> , <b>2013</b> , 2013, 1-2	2.3	7
18	Mid- to far-infrared sensing: SrTiO <sub>3</sub> , a novel optical material. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 7851-7857	7.1	6
17	Laser-matter interactions, phase changes and diffusion phenomena during laser annealing of plasmonic AlN:Ag templates and their applications in optical encoding. <i>Journal Physics D: Applied Physics</i> , <b>2015</b> , 48, 285306	3	6
16	Coupling atomistic and continuum length scales in heteroepitaxial systems: Multiscale molecular-dynamics/finite-element simulations of strain relaxation in SiBi <sub>3</sub> N <sub>4</sub> nanopixels. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	6
15	A stable, power scaling, graphene-mode-locked all-fiber oscillator. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 243102	3.4	5
14	Photosensitivity and optical performance of hydrogenated amorphous carbon films processed by picosecond laser beams. <i>Surface and Coatings Technology</i> , <b>2011</b> , 206, 734-741	4.4	5
13	Design of a nanoelectromechanical high-index-contrast guided-wave optical switch for single-mode operation at 1.55 $\mu\text{m}$ . <i>IEEE Photonics Technology Letters</i> , <b>2003</b> , 15, 1207-1209	2.2	5
12	Functionally graded poly(dimethylsiloxane)/silver nanocomposites with tailored broadband optical absorption. <i>Thin Solid Films</i> , <b>2015</b> , 581, 14-19	2.2	4

11	Coupling of Length Scales: Hybrid Molecular Dynamics and Finite Element Approach for Multiscale Nanodevice Simulations. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 653,		4
10	Tailored Aggregate-Free Au Nanoparticle Decorations with Sharp Plasmonic Peaks on a U-Type Optical Fiber Sensor by Nanosecond Laser Irradiation. <i>Plasmonics</i> , <b>2017</b> , 12, 535-543	2.4	3
9	Simulating the opto-thermal processes involved in laser induced self-assembly of surface and sub-surface plasmonic nano-structuring. <i>Thin Solid Films</i> , <b>2017</b> , 630, 7-24	2.2	3
8	Bare-eye view at the nanoscale: new visual interferometric multi-indicator (VIMI). <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 3052-8	9.5	3
7	Coupling, scattering, and perturbation theory: Semi-analytical analyses of photonic-crystal waveguides		3
6	Lumped-element model of plasmonic solar cells. <i>Solid-State Electronics</i> , <b>2018</b> , 147, 39-43	1.7	2
5	Finite-temperature effects on conductance modulation by local doping in graphene with multiple magnetic barriers. <i>2D Materials</i> , <b>2015</b> , 2, 045007	5.9	2
4	Electromagnetically induced transparency in microcavities <b>2004</b> , 5554, 174		2
3	A hybrid modeling framework for the investigation of surface roughening of polymers during oxygen plasma etching. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 175205	3	2
2	Lithographically tuned one dimensional polymeric photonic crystal arrays. <i>Optics and Laser Technology</i> , <b>2015</b> , 68, 105-112	4.2	1
1	Structural and energetic properties of P3HT and PCBM layers on the Ag(1 1 1) surface. <i>Computational and Theoretical Chemistry</i> , <b>2020</b> , 1190, 112997	2	0