

Elefterios Lidorikis

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.

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	A hybrid modeling framework for the investigation of surface roughening of polymers during oxygen plasma etching. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 175205	3	2
81	Rapid Photonic Processing of High-Electron-Mobility PbS Colloidal Quantum Dot Transistors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31591-31600	9.5	9
80	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> , 2020 , 3, 4728-4738	5.6	17
79	Plasmonic antenna coupling to hyperbolic phonon-polaritons for sensitive and fast mid-infrared photodetection with graphene. <i>Nature Communications</i> , 2020 , 11, 4872	17.4	19
78	Structural and energetic properties of P3HT and PCBM layers on the Ag(1 1 1) surface. <i>Computational and Theoretical Chemistry</i> , 2020 , 1190, 112997	2	0
77	Surface-Enhanced Raman Spectroscopy of Graphene Integrated in Plasmonic Silicon Platforms with Three-Dimensional Nanotopography. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 3076-3087	3.8	13
76	Mid- to far-infrared sensing: SrTiO ₃ , a novel optical material. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 7851-7857	7.1	6
75	Fast and Sensitive Terahertz Detection Using an Antenna-Integrated Graphene pn Junction. <i>Nano Letters</i> , 2019 , 19, 2765-2773	11.5	82
74	Flat-band localization and self-collimation of light in photonic crystals. <i>Scientific Reports</i> , 2019 , 9, 2862	4.9	11
73	Electronic Structure-Dependent Surface Plasmon Resonance in Single Au-Fe Nanoalloys. <i>Nano Letters</i> , 2019 , 19, 5754-5761	11.5	20
72	Hot Electrons Modulation of Third-Harmonic Generation in Graphene. <i>ACS Photonics</i> , 2019 , 6, 2841-2849	6.3	22
71	The interplay between surface charging and microscale roughness during plasma etching of polymeric substrates. <i>Journal of Applied Physics</i> , 2018 , 123, 073303	2.5	14
70	Conductive nitrides: Growth principles, optical and electronic properties, and their perspectives in photonics and plasmonics. <i>Materials Science and Engineering Reports</i> , 2018 , 123, 1-55	30.9	128
69	Plasmonic Organic Photovoltaics: Unraveling Plasmonic Enhancement for Realistic Cell Geometries. <i>ACS Photonics</i> , 2018 , 5, 1440-1452	6.3	19
68	Lumped-element model of plasmonic solar cells. <i>Solid-State Electronics</i> , 2018 , 147, 39-43	1.7	2
67	Roughness Evolution and Charging in Plasma-Based Surface Engineering of Polymeric Substrates: The Effects of Ion Reflection and Secondary Electron Emission. <i>Micromachines</i> , 2018 , 9,	3.3	14
66	Deep and fast free-space electro-absorption modulation in a mobility-independent graphene-loaded Bragg resonator. <i>Applied Physics Letters</i> , 2018 , 113, 011102	3.4	8

65	Tailored Aggregate-Free Au Nanoparticle Decorations with Sharp Plasmonic Peaks on a U-Type Optical Fiber Sensor by Nanosecond Laser Irradiation. <i>Plasmonics</i> , 2017 , 12, 535-543	2.4	3
64	Graphene-based mid-infrared room-temperature pyroelectric bolometers with ultrahigh temperature coefficient of resistance. <i>Nature Communications</i> , 2017 , 8, 14311	17.4	101
63	A stable, power scaling, graphene-mode-locked all-fiber oscillator. <i>Applied Physics Letters</i> , 2017 , 110, 243102	3.4	5
62	Design of high-temperature solar-selective coatings for application in solar collectors. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 170, 102-113	6.4	21
61	Simulating the opto-thermal processes involved in laser induced self-assembly of surface and sub-surface plasmonic nano-structuring. <i>Thin Solid Films</i> , 2017 , 630, 7-24	2.2	3
60	Vertically Illuminated, Resonant Cavity Enhanced, Graphene-Silicon Schottky Photodetectors. <i>ACS Nano</i> , 2017 , 11, 10955-10963	16.7	70
59	Stable, Surfactant-Free Graphene/Styrene Methylmethacrylate Composite for Ultrafast Lasers. <i>Advanced Optical Materials</i> , 2016 , 4, 1088-1097	8.1	29
58	Plasmonic Backscattering Effect in High-Efficient Organic Photovoltaic Devices. <i>Advanced Energy Materials</i> , 2016 , 6, 1501640	21.8	37
57	Selective modification of nanoparticle arrays by laser-induced self assembly (MONA-LISA): putting control into bottom-up plasmonic nanostructuring. <i>Nanoscale</i> , 2016 , 8, 8236-44	7.7	36
56	Surface Plasmon Polariton Graphene Photodetectors. <i>Nano Letters</i> , 2016 , 16, 8-20	11.5	119
55	Plasmonic spectral tunability of conductive ternary nitrides. <i>Applied Physics Letters</i> , 2016 , 108, 263110	3.4	29
54	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> , 2015 , 48, 285306	3	6
53	Sub-surface laser nanostructuring in stratified metal/dielectric media: a versatile platform towards flexible, durable and large-scale plasmonic writing. <i>Nanotechnology</i> , 2015 , 26, 155301	3.4	8
52	Lithographically tuned one dimensional polymeric photonic crystal arrays. <i>Optics and Laser Technology</i> , 2015 , 68, 105-112	4.2	1
51	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015 , 7, 4598-810	7.7	2015
50	Few-cycle pulses from a graphene mode-locked all-fiber laser. <i>Applied Physics Letters</i> , 2015 , 106, 253101	3.4	34
49	Finite-temperature effects on conductance modulation by local doping in graphene with multiple magnetic barriers. <i>2D Materials</i> , 2015 , 2, 045007	5.9	2
48	Functionally graded poly(dimethylsiloxane)/silver nanocomposites with tailored broadband optical absorption. <i>Thin Solid Films</i> , 2015 , 581, 14-19	2.2	4

47	Formation of plasmonic colloidal silver for flexible and printed electronics using laser ablation. <i>Applied Surface Science</i> , 2015 , 336, 262-266	6.7	11
46	Influence of laser annealing on the structural properties of sputtered AlN:Ag plasmonic nanocomposites. <i>Journal of Materials Science</i> , 2014 , 49, 3996-4006	4.3	7
45	Photothermoelectric and photoelectric contributions to light detection in metal-graphene-metal photodetectors. <i>Nano Letters</i> , 2014 , 14, 3733-42	11.5	124
44	Raman scattering efficiency of graphene. <i>Physical Review B</i> , 2013 , 87,	3.3	71
43	1.5 GHz picosecond pulse generation from a monolithic waveguide laser with a graphene-film saturable output coupler. <i>Optics Express</i> , 2013 , 21, 7943-50	3.3	98
42	Broadband optical absorption of amorphous carbon/Ag nanocomposite films and its potential for solar harvesting applications. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 117, 350-356	6.4	31
41	Theoretical study of phenyl-substituted indacenodithiophene copolymers for high performance organic photovoltaics. <i>Journal of Chemical Physics</i> , 2013 , 138, 064901	3.9	16
40	Composite Nanoparticles. <i>Journal of Chemistry</i> , 2013 , 2013, 1-2	2.3	7
39	Modeling of enhanced absorption and Raman scattering caused by plasmonic nanoparticle near fields. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012 , 113, 2573-2584	2.1	12
38	Optical encoding by plasmon-based patterning: hard and inorganic materials become photosensitive. <i>Nano Letters</i> , 2012 , 12, 259-63	11.5	41
37	Theory of plasmonic near-field enhanced absorption in solar cells. <i>Applied Physics Letters</i> , 2011 , 99, 063304	3.4	41
36	Photosensitivity and optical performance of hydrogenated amorphous carbon films processed by picosecond laser beams. <i>Surface and Coatings Technology</i> , 2011 , 206, 734-741	4.4	5
35	Three-Dimensional Colloidal Crystal Arrays Exhibiting Stop Band in Near-Infrared Region. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 16389-16394	3.8	16
34	Bare-eye view at the nanoscale: new visual interferometric multi-indicator (VIMI). <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 3052-8	9.5	3
33	Surface-enhanced Raman spectroscopy of graphene. <i>ACS Nano</i> , 2010 , 4, 5617-26	16.7	384
32	Photonics with multiwall carbon nanotube arrays. <i>ACS Nano</i> , 2009 , 3, 1238-48	16.7	64
31	Rayleigh imaging of graphene and graphene layers. <i>Nano Letters</i> , 2007 , 7, 2711-7	11.5	513
30	Effective medium properties and photonic crystal superstructures of metallic nanoparticle arrays. <i>Journal of Applied Physics</i> , 2007 , 101, 054304	2.5	40

29	Active materials embedded in photonic crystals and coupled to electromagnetic radiation. <i>Physical Review B</i> , 2006 , 73,	3.3	45
28	Enhancement of microcavity lifetimes using highly dispersive materials. <i>Physical Review E</i> , 2005 , 71, 026602	3.3	33
27	Surface-plasmon-assisted guiding of broadband slow and subwavelength light in air. <i>Physical Review Letters</i> , 2005 , 95, 063901	7.4	152
26	Ultralow-power all-optical switching. <i>Applied Physics Letters</i> , 2005 , 86, 171101	3.4	51
25	Coupling atomistic and continuum length scales in heteroepitaxial systems: Multiscale molecular-dynamics/finite-element simulations of strain relaxation in Si ₃ N ₄ nanopixels. <i>Physical Review B</i> , 2005 , 72,	3.3	6
24	Point defect geometries in inverted opal photonic crystals. <i>Physical Review E</i> , 2005 , 71, 056602	2.4	10
23	Effect of a photonic band gap on scattering from waveguide disorder. <i>Applied Physics Letters</i> , 2004 , 84, 3639-3641	3.4	56
22	Electromagnetically induced transparency in microcavities 2004 , 5554, 174		2
21	A three-dimensional optical photonic crystal with designed point defects. <i>Nature</i> , 2004 , 429, 538-42	50.4	387
20	Optical bistability and cutoff solitons in photonic bandgap fibers. <i>Optics Express</i> , 2004 , 12, 1518-27	3.3	12
19	Cutoff solitons in axially uniform systems. <i>Optics Letters</i> , 2004 , 29, 851-3	3	15
18	Nature of lossy Bloch states in polaritonic photonic crystals. <i>Physical Review B</i> , 2004 , 69,	3.3	65
17	Design of a nanoelectromechanical high-index-contrast guided-wave optical switch for single-mode operation at 1.55 μm . <i>IEEE Photonics Technology Letters</i> , 2003 , 15, 1207-1209	2.2	5
16	Polarization-independent linear waveguides in 3D photonic crystals. <i>Physical Review Letters</i> , 2003 , 91, 023902	7.4	26
15	Atomistic Aspects of Crack Propagation in Brittle Materials: Multimillion Atom Molecular Dynamics Simulations. <i>Annual Review of Materials Research</i> , 2002 , 32, 377-400	12.8	148
14	Adiabatic theorem and continuous coupled-mode theory for efficient taper transitions in photonic crystals. <i>Physical Review E</i> , 2002 , 66, 066608	2.4	159
13	Hybrid finite-element/molecular-dynamics/electronic-density-functional approach to materials simulations on parallel computers. <i>Computer Physics Communications</i> , 2001 , 138, 143-154	4.2	123
12	Coupling length scales for multiscale atomistics-continuum simulations: atomistically induced stress distributions in Si/Si ₃ N ₄ nanopixels. <i>Physical Review Letters</i> , 2001 , 87, 086104	7.4	66

11	. <i>Computing in Science and Engineering</i> , 2001 , 3, 56-66	1.5	81
10	Coupling of Length Scales: Hybrid Molecular Dynamics and Finite Element Approach for Multiscale Nanodevice Simulations. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 653,		4
9	Gap deformation and classical wave localization in disordered two-dimensional photonic-band-gap materials. <i>Physical Review B</i> , 2000 , 61, 13458-13464	3.3	76
8	Pulse-driven switching in one-dimensional nonlinear photonic band gap materials: a numerical study. <i>Physical Review E</i> , 2000 , 61, 5825-9	2.4	13
7	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> , 2000 , 17, 2037	1.7	11
6	Wave propagation in linear and nonlinear structures. <i>Physica D: Nonlinear Phenomena</i> , 1998 , 113, 346-365	3.3	9
5	Tight-Binding Parametrization for Photonic Band Gap Materials. <i>Physical Review Letters</i> , 1998 , 81, 1405-1408	1.4	184
4	Optical bistability in colloidal crystals. <i>Physical Review E</i> , 1997 , 55, 3613-3618	2.4	23
3	Optical nonlinear response of a single nonlinear dielectric layer sandwiched between two linear dielectric structures. <i>Physical Review B</i> , 1997 , 56, 15090-15099	3.3	67
2	Wave propagation in nonlinear multilayer structures. <i>Physical Review B</i> , 1996 , 54, 10249-10252	3.3	34
1	Coupling, scattering, and perturbation theory: Semi-analytical analyses of photonic-crystal waveguides		3