

Maria Kafesaki

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.

135
papers

7,575
citations

45
h-index

85
g-index

161
ext. papers

8,657
ext. citations

4.2
avg, IF

5.82
L-index

#	Paper	IF	Citations
135	Saturation of the magnetic response of split-ring resonators at optical frequencies. <i>Physical Review Letters</i> , 2005 , 95, 223902	7.4	467
134	Electric coupling to the magnetic resonance of split ring resonators. <i>Applied Physics Letters</i> , 2004 , 84, 2943-2945	3.4	348
133	A comparison of graphene, superconductors and metals as conductors for metamaterials and plasmonics. <i>Nature Photonics</i> , 2012 , 6, 259-264	33.9	309
132	Negative refractive index due to chirality. <i>Physical Review B</i> , 2009 , 79,	3.3	293
131	Left-handed metamaterials: The fishnet structure and its variations. <i>Physical Review B</i> , 2007 , 75,	3.3	277
130	Multiple-scattering theory for three-dimensional periodic acoustic composites. <i>Physical Review B</i> , 1999 , 60, 11993-12001	3.3	276
129	Effective medium theory of left-handed materials. <i>Physical Review Letters</i> , 2004 , 93, 107402	7.4	260
128	Chiral metamaterials: simulations and experiments. <i>Journal of Optics</i> , 2009 , 11, 114003		217
127	Frequency modulation in the transmittivity of wave guides in elastic-wave band-gap materials. <i>Physical Review Letters</i> , 2000 , 85, 4044-7	7.4	217
126	Investigation of magnetic resonances for different split-ring resonator parameters and designs. <i>New Journal of Physics</i> , 2005 , 7, 168-168	2.9	214
125	Optically implemented broadband blueshift switch in the terahertz regime. <i>Physical Review Letters</i> , 2011 , 106, 037403	7.4	190
124	Theory and experiments on elastic band gaps. <i>Physical Review Letters</i> , 2000 , 84, 4349-52	7.4	177
123	Magnetic response of split-ring resonators in the far-infrared frequency regime. <i>Optics Letters</i> , 2005 , 30, 1348-50	3	169
122	Classical vibrational modes in phononic lattices: theory and experiment. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2005 , 220,	1	162
121	Negative-Index Materials: New Frontiers in Optics. <i>Advanced Materials</i> , 2006 , 18, 1941-1952	24	161
120	Chiral metamaterials with negative refractive index based on four split ring resonators. <i>Applied Physics Letters</i> , 2010 , 97, 081901	3.4	157
119	Experimental observation of true left-handed transmission peaks in metamaterials. <i>Optics Letters</i> , 2004 , 29, 2623-5	3	138

118	Extremely high Q-factor metamaterials due to anapole excitation. <i>Physical Review B</i> , 2017 , 95,	3.3	128
117	Elastic wave band gaps in 3-D periodic polymer matrix composites. <i>Solid State Communications</i> , 1995 , 96, 285-289	1.6	123
116	Controlling the resonance of a photonic crystal microcavity by a near-field probe. <i>Physical Review Letters</i> , 2005 , 95, 153904	7.4	103
115	Air bubbles in water: a strongly multiple scattering medium for acoustic waves. <i>Physical Review Letters</i> , 2000 , 84, 6050-3	7.4	103
114	Three-Dimensional Infrared Metamaterial with Asymmetric Transmission. <i>ACS Photonics</i> , 2015 , 2, 287-294.	4.3	100
113	Dielectric Metamaterials with Toroidal Dipolar Response. <i>Physical Review X</i> , 2015 , 5,	9.1	96
112	Photonic-crystal ultrashort bends with improved transmission and low reflection at 1.55 μm . <i>Applied Physics Letters</i> , 2002 , 80, 547-549	3.4	93
111	Left-handed metamaterials: detailed numerical studies of the transmission properties. <i>Journal of Optics</i> , 2005 , 7, S12-S22		92
110	Broadband blueshift tunable metamaterials and dual-band switches. <i>Physical Review B</i> , 2009 , 79,	3.3	81
109	Three-dimensional metallic photonic crystals with optical bandgaps. <i>Advanced Materials</i> , 2012 , 24, 1101-54		79
108	Multi-gap individual and coupled split-ring resonator structures. <i>Optics Express</i> , 2008 , 16, 18131-44	3.3	78
107	Experimental demonstration of a left-handed metamaterial operating at 100GHz. <i>Physical Review B</i> , 2006 , 73,	3.3	78
106	Experimental Demonstration of Ultrafast THz Modulation in a Graphene-Based Thin Film Absorber through Negative Photoinduced Conductivity. <i>ACS Photonics</i> , 2019 , 6, 720-727	6.3	77
105	Negative refractive index response of weakly and strongly coupled optical metamaterials. <i>Physical Review B</i> , 2009 , 80,	3.3	76
104	Interpretation of the band-structure results for elastic and acoustic waves by analogy with the LCAO approach. <i>Physical Review B</i> , 1995 , 52, 13317-13331	3.3	73
103	Intelligent Metasurfaces with Continuously Tunable Local Surface Impedance for Multiple Reconfigurable Functions. <i>Physical Review Applied</i> , 2019 , 11,	4.3	67
102	Toward Intelligent Metasurfaces: The Progress from Globally Tunable Metasurfaces to Software-Defined Metasurfaces with an Embedded Network of Controllers. <i>Advanced Optical Materials</i> , 2020 , 8, 2000783	8.1	66
101	Design and Development of Software Defined Metamaterials for Nanonetworks. <i>IEEE Circuits and Systems Magazine</i> , 2015 , 15, 12-25	3.2	65

100	Theoretical model of homogeneous metal-insulator-metal perfect multi-band absorbers for the visible spectrum. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 055104	3	62
99	Optically controllable THz chiral metamaterials. <i>Optics Express</i> , 2014 , 22, 12149-59	3.3	60
98	Single and multilayer metamaterials fabricated by nanoimprint lithography. <i>Nanotechnology</i> , 2011 , 22, 325301	3.4	59
97	Near-field visualization of light confinement in a photonic crystal microresonator. <i>Optics Letters</i> , 2004 , 29, 174-6	3	57
96	Flexible chiral metamaterials in the terahertz regime: a comparative study of various designs. <i>Optical Materials Express</i> , 2012 , 2, 1702	2.6	55
95	Dynamic response of metamaterials in the terahertz regime: Blueshift tunability and broadband phase modulation. <i>Applied Physics Letters</i> , 2010 , 96, 021111	3.4	54
94	The science of negative index materials. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 304217	1.8	52
93	Spontaneous emission rates of dipoles in photonic crystal membranes. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006 , 23, 1196	1.7	50
92	Left- and right-handed transmission peaks near the magnetic resonance frequency in composite metamaterials. <i>Physical Review B</i> , 2004 , 70,	3.3	48
91	Toroidal eigenmodes in all-dielectric metamolecules. <i>Physical Review B</i> , 2016 , 94,	3.3	46
90	Pairing Toroidal and Magnetic Dipole Resonances in Elliptic Dielectric Rod Metasurfaces for Reconfigurable Wavefront Manipulation in Reflection. <i>Advanced Optical Materials</i> , 2018 , 6, 1800633	8.1	44
89	Experimental demonstration of negative magnetic permeability in the far-infrared frequency regime. <i>Applied Physics Letters</i> , 2006 , 89, 084103	3.4	42
88	Size dependence and convergence of the retrieval parameters of metamaterials. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2008 , 6, 96-101	2.6	41
87	Two-dimensional polaritonic photonic crystals as terahertz uniaxial metamaterials. <i>Physical Review B</i> , 2011 , 84,	3.3	40
86	Magnetic response of nanoscale left-handed metamaterials. <i>Physical Review B</i> , 2010 , 81,	3.3	39
85	Self-organization approach for THz polaritonic metamaterials. <i>Optics Express</i> , 2012 , 20, 14663-82	3.3	39
84	Models and measurements for the transmission of submicron-width waveguide bends defined in two-dimensional photonic crystals. <i>IEEE Journal of Quantum Electronics</i> , 2002 , 38, 770-785	2	38
83	Spectral gaps for electromagnetic and scalar waves: Possible explanation for certain differences. <i>Physical Review B</i> , 1994 , 50, 3393-3396	3.3	38

82	Optically switchable and tunable terahertz metamaterials through photoconductivity. <i>Journal of Optics (United Kingdom)</i> , 2012 , 14, 114008	1.7	34
81	Connected bulk negative index photonic metamaterials. <i>Optics Letters</i> , 2009 , 34, 506-8	3	34
80	Magnetic response of split ring resonators at terahertz frequencies. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 1181-1187	1.3	34
79	Epsilon near zero based phenomena in metamaterials. <i>Physical Review B</i> , 2013 , 87,	3.3	33
78	Eutectic epsilon-near-zero metamaterial terahertz waveguides. <i>Optics Letters</i> , 2013 , 38, 1140-2	3	33
77	Spontaneous emission in the near field of two-dimensional photonic crystals. <i>Optics Letters</i> , 2005 , 30, 3210-2	3	33
76	Programmable Metasurfaces: State of the Art and Prospects 2018 ,		32
75	A Multi-Functional Reconfigurable Metasurface: Electromagnetic Design Accounting for Fabrication Aspects. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 1440-1454	4.9	31
74	Negative index short-slab pair and continuous wires metamaterials in the far infrared regime. <i>Optics Express</i> , 2008 , 16, 9173-80	3.3	29
73	Wave guides in two-dimensional elastic wave band-gap materials. <i>Physica B: Condensed Matter</i> , 2001 , 296, 190-194	2.8	28
72	Exploration of Intercell Wireless Millimeter-Wave Communication in the Landscape of Intelligent Metasurfaces. <i>IEEE Access</i> , 2019 , 7, 122931-122948	3.5	27
71	Composite chiral metamaterials with negative refractive index and high values of the figure of merit. <i>Optics Express</i> , 2012 , 20, 6146-56	3.3	27
70	Waveguides in finite-height two-dimensional photonic crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002 , 19, 2232	1.7	25
69	Simulation and micro-fabrication of optically switchable split ring resonators. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2007 , 5, 106-112	2.6	24
68	Backward surface waves at photonic crystals. <i>Physical Review B</i> , 2007 , 75,	3.3	24
67	Theoretical study of left-handed behavior of composite metamaterials. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2006 , 4, 12-16	2.6	24
66	Perfect optical absorption with nanostructured metal films: design and experimental demonstration. <i>Optics Express</i> , 2019 , 27, 6842-6850	3.3	23
65	Optical metamaterials with different metals. <i>Physical Review B</i> , 2012 , 85,	3.3	23

64	Interacting plasmon and phonon polaritons in aligned nano- and microwires. <i>Optics Express</i> , 2012 , 20, 10879-87	3.3	23
63	Perfect absorbers based on metal-insulator-metal structures in the visible region: a simple approach for practical applications. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	22
62	Intercell Wireless Communication in Software-defined Metasurfaces 2018 ,		22
61	Compact planar far-field superlens based on anisotropic left-handed metamaterials. <i>Physical Review B</i> , 2009 , 80,	3.3	22
60	Passive radiative cooling and other photonic approaches for the temperature control of photovoltaics: a comparative study for crystalline silicon-based architectures. <i>Optics Express</i> , 2020 , 28, 18548-18565	3.3	21
59	THz metamaterials made of phonon-polariton materials. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2014 , 12, 376-386	2.6	19
58	Near-Infrared and Optical Beam Steering and Frequency Splitting in Air-Holes-in-Silicon Inverse Photonic Crystals. <i>ACS Photonics</i> , 2017 , 4, 2782-2788	6.3	17
57	Phononic crystals and elastodynamics: Some relevant points. <i>AIP Advances</i> , 2014 , 4, 124203	1.5	17
56	Bilayer metamaterial: analysis of left-handed transmission and retrieval of effective medium parameters. <i>Journal of Optics</i> , 2007 , 9, S361-S365		17
55	Phonons in colloidal crystals. <i>Europhysics Letters</i> , 2002 , 58, 699-704	1.6	17
54	Electromagnetic shielding effectiveness and mechanical properties of graphite-based polymeric films. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	17
53	Joint Compressed Sensing and Manipulation of Wireless Emissions with Intelligent Surfaces 2019 ,		17
52	Efficient and environmental-friendly perovskite solar cells via embedding plasmonic nanoparticles: an optical simulation study on realistic device architectures. <i>Optics Express</i> , 2019 , 27, 31144-31163	3.3	16
51	Chiral Metamaterials with PT Symmetry and Beyond. <i>Physical Review Letters</i> , 2019 , 122, 213201	7.4	15
50	Frequency splitter based on the directional emission from surface modes in dielectric photonic crystal structures. <i>Optics Express</i> , 2015 , 23, 13972-82	3.3	15
49	Near-field optics and control of photonic crystals. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2005 , 3, 63-74	2.6	15
48	Scalability Analysis of Programmable Metasurfaces for Beam Steering. <i>IEEE Access</i> , 2020 , 8, 105320-105334	3.3	14
47	Influence of external magnetic field on magnon-plasmon polaritons in negative-index antiferromagnetic semiconductor superlattices. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 603-608	2.8	14

46	Experimental verification of backward wave propagation at photonic crystal surfaces. <i>Applied Physics Letters</i> , 2007 , 91, 214102	3.4	14
45	Losses and transmission in two-dimensional slab photonic crystals. <i>Journal of Applied Physics</i> , 2004 , 96, 4033-4038	2.5	14
44	Backward wave radiation from negative permittivity waveguides and its use for THz subwavelength imaging. <i>Optics Express</i> , 2012 , 20, 12752-60	3.3	12
43	Controlling THz and far-IR waves with chiral and bianisotropic metamaterials. <i>EPJ Applied Metamaterials</i> , 2015 , 2, 15	0.8	11
42	Experimentally excellent beaming in a two-layer dielectric structure. <i>Optics Express</i> , 2014 , 22, 23147-52	3.3	11
41	Software-Defined Metasurface Paradigm: Concept, Challenges, Prospects 2018 ,		11
40	Parametric investigation and analysis of fishnet metamaterials in the microwave regime. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009 , 26, B61	1.7	10
39	Acoustic waves in random media. <i>Europhysics Letters</i> , 1997 , 37, 7-12	1.6	10
38	Flexible 3D Printed Conductive Metamaterial Units for Electromagnetic Applications in Microwaves. <i>Materials</i> , 2020 , 13,	3.5	10
37	Microwave and THz sensing using slab-pair-based metamaterials. <i>Physica B: Condensed Matter</i> , 2012 , 407, 4070-4074	2.8	9
36	Squeezing a Prism into a Surface: Emulating Bulk Optics with Achromatic Metasurfaces. <i>Advanced Optical Materials</i> , 2020 , 8, 2000942	8.1	9
35	Experimental Implementation of Achromatic Multiresonant Metasurface for Broadband Pulse Delay. <i>ACS Photonics</i> , 2021 , 8, 1649-1655	6.3	9
34	ABSense 2019 ,		9
33	Anapole Tolerance to Dissipation Losses in Thermally Tunable Water-Based Metasurfaces. <i>Physical Review Applied</i> , 2021 , 15,	4.3	9
32	Nanoimprinted plasmonic crystals for light extraction applications. <i>Microelectronic Engineering</i> , 2010 , 87, 1367-1369	2.5	8
31	3D Photonic Nanostructures via Diffusion-Assisted Direct fs Laser Writing. <i>Advances in OptoElectronics</i> , 2012 , 2012, 1-6	0.5	7
30	Split-cube-resonator-based metamaterials for polarization-selective asymmetric perfect absorption. <i>Scientific Reports</i> , 2020 , 10, 17653	4.9	7
29	Local density of optical states in the three-dimensional band gap of a finite photonic crystal. <i>Physical Review B</i> , 2020 , 101,	3.3	6

28	Electromagnetic behaviour of left-handed materials. <i>Physica B: Condensed Matter</i> , 2007 , 394, 148-154	2.8	6
27	Comment on Energy Velocity of Diffusing Waves in Strongly Scattering Media <i>Physical Review Letters</i> , 1999 , 82, 2000-2000	7.4	6
26	Tunable Perfect Anomalous Reflection in Metasurfaces with Capacitive Lumped Elements 2018 ,		6
25	Micro-Ring Resonator Devices Prototyped on Optical Fiber Tapers by Multi-Photon Lithography. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021 , 27, 1-7	3.8	6
24	Spontaneous-relaxation-rate suppression in cavities with PT symmetry. <i>Physical Review A</i> , 2019 , 99,	2.6	5
23	Discontinuous design of negative index metamaterials based on mode hybridization. <i>Applied Physics Letters</i> , 2012 , 101, 081913	3.4	5
22	Temperature induced modification of the mid-infrared response of single-walled carbon nanotubes. <i>Journal of Applied Physics</i> , 2016 , 119, 104303	2.5	5
21	PT-symmetric chiral metamaterials: Asymmetric effects and PT-phase control. <i>Physical Review B</i> , 2020 , 101,	3.3	4
20	Possible molecular bottom-up approach to optical metamaterials. <i>Physical Review B</i> , 2012 , 86,	3.3	4
19	All-graphene perfect broadband THz absorber. <i>Carbon</i> , 2021 , 185, 709-716	10.4	4
18	Accessible phases via wave impedance engineering with PT-symmetric metamaterials. <i>Physical Review B</i> , 2019 , 100,	3.3	4
17	The Fourth Quadrant in the μ -Plane: A New Frontier in Optics. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009 , 6, 1827-1836	0.3	3
16	Ultraviolet radiation impact on the efficiency of commercial crystalline silicon-based photovoltaics: a theoretical thermal-electrical study in realistic device architectures. <i>OSA Continuum</i> , 2020 , 3, 1436	1.4	3
15	Combined nano and micro structuring for enhanced radiative cooling and efficiency of photovoltaic cells. <i>Scientific Reports</i> , 2021 , 11, 11552	4.9	3
14	On loss compensation, amplification and lasing in metallic metamaterials. <i>Nanomaterials and Nanotechnology</i> , 2019 , 9, 184798041881794	2.9	3
13	Scattering Properties of PT-Symmetric Chiral Metamaterials. <i>Photonics</i> , 2020 , 7, 43	2.2	2
12	Robust wedge demonstration to optical negative index metamaterials. <i>Applied Physics Letters</i> , 2013 , 102, 241915	3.4	2
11	Toroidal Multipoles in Metamaterials 2020 , 237-278		2

10	2D-patterned graphene metasurfaces for efficient third harmonic generation at THz frequencies.. <i>Optics Express</i> , 2022 , 30, 460-472	3.3	2
9	Graded-index optical dimer formed by optical force. <i>Optics Express</i> , 2016 , 24, 11376-86	3.3	2
8	Multiwideband Terahertz Communications Via Tunable Graphene-Based Metasurfaces in 6G Networks: Graphene Enables Ultimate Multiwideband THz Wavefront Control. <i>IEEE Vehicular Technology Magazine</i> , 2022 , 2-10	9.9	2
7	Acoustic and elastic waves in random media [CPA]. <i>Annalen Der Physik</i> , 1998 , 7, 383-388	2.6	1
6	Low-loss photonic crystal and monolithic InP integration: bands, bends, lasers, and filters 2004 , 5360, 119		1
5	Polaritonic cylinders as multifunctional metamaterials: Single scattering and effective medium description. <i>Physical Review B</i> , 2020 , 102,	3.3	1
4	Experimental demonstration of ultrathin broken-symmetry metasurfaces with controllably sharp resonant response. <i>Applied Physics Letters</i> , 2021 , 119, 231601	3.4	1
3	Scanning Near-Field Optical Studies of Photonic Devices 2006 , 215-237		
2	Historical Perspective and Review of Fundamental Principles in Modeling Three-Dimensional Periodic Structures with Emphasis on Volumetric EBGs 211-238		
1	Nanoscale Channel Modeling in Highly Integrated Computing Packages 2019 , 127-150		