

Nikolaos Stefanou

List of Publications by Year in descending order

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154
papers

5,271
citations

94433

37
h-index

95266

68
g-index

155
all docs

155
docs citations

155
times ranked

2990
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonreciprocal acoustic transmission through dynamic multilayer structures. Physical Review B, 2022, 106, .	3.2	1
2	Tailoring the Interaction of Light with Static and Dynamic Magnetization Fields in Stratified Nanostructures. , 2021, , 1-77.		0
3	EBCM for Electromagnetic Modeling of Gyrotropic BoRs. IEEE Transactions on Antennas and Propagation, 2021, 69, 6134-6139.	5.1	9
4	Light scattering by a spherical particle with a time-periodic refractive index. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 407.	2.1	11
5	Tunable multidispersive bands of inductive origin in piezoelectric phononic plates. Journal of Applied Physics, 2021, 130, .	2.5	2
6	Nonspherical optomagnonic resonators for enhanced magnon-mediated optical transitions. Physical Review B, 2021, 104, .	3.2	3
7	Multipolar interactions in Si sphere metagratings. Journal of Applied Physics, 2020, 128, .	2.5	13
8	Spherical optomagnonic microresonators: Triple-resonant photon transitions between Zeeman-split Mie modes. Physical Review B, 2020, 101, .	3.2	21
9	Planar optomagnonic cavities driven by surface spin waves. Physical Review B, 2020, 101, .	3.2	6
10	High-efficiency triple-resonant inelastic light scattering in planar optomagnonic cavities. New Journal of Physics, 2019, 21, 095001.	2.9	13
11	Layered optomagnonic structures: Time Floquet scattering-matrix approach. Physical Review B, 2019, 99, .	3.2	19
12	Scattering by a Magnetized Cold Plasma Body. , 2019, , .		0
13	Nanographene oxideâ€“TiO ₂ photonic films as plasmon-free substrates for surface-enhanced Raman scattering. Nanoscale, 2019, 11, 21542-21553.	5.6	26
14	Tailoring coupling between light and spin waves with dual photonicâ€“magnonic resonant layered structures. Journal of Optics (United Kingdom), 2019, 21, 015603.	2.2	9
15	Metal-coated magnetic nanoparticles in an optically active medium: A nonreciprocal metamaterial. Physical Review B, 2018, 97, .	3.2	7
16	A birefringent etalon enhances the Faraday rotation of thin magneto-optical films. Journal of Optics (United Kingdom), 2017, 19, 075102.	2.2	8
17	Slow-photon enhancement of dye sensitized TiO ₂ photocatalysis. Materials Letters, 2017, 197, 123-126.	2.6	42
18	Photomagnonic nanocavities for strong lightâ€“spin-wave interaction. Physical Review B, 2017, 96, .	3.2	33

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19	Acoustic properties of double-porosity granular polymers. <i>Physical Review B</i> , 2017, 95, .	3.2	4
20	Metal-nanoparticle arrays on a magnetic garnet film for tunable plasmon-enhanced Faraday rotation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 2609.	2.1	26
21	Plasmon-driven large Hall photon currents in light scattering by a core-shell magnetoplasmonic nanosphere. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 1286.	2.1	11
22	Molecular fluorescence enhancement in plasmonic environments: exploring the role of nonlocal effects. <i>Nanoscale</i> , 2016, 8, 17532-17541.	5.6	54
23	Phononic crystals of poroelastic spheres. <i>Physical Review B</i> , 2016, 94, .	3.2	13
24	Enhanced Faraday rotation by crystals of core-shell magnetoplasmonic nanoparticles. <i>Physical Review B</i> , 2016, 93, .	3.2	20
25	Dual photonic-phononic nanocavities for tailoring the acousto-optic interaction. <i>Microelectronic Engineering</i> , 2016, 159, 80-83.	2.4	0
26	Silver-coated metallic and dielectric magnetic nanospheres: Localized surface plasmons and circular dichroism. <i>Optics Communications</i> , 2016, 360, 40-45.	2.1	8
27	Strong circular dichroism of core-shell magnetoplasmonic nanoparticles. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 1063.	2.1	17
28	LAYER MULTIPLE SCATTERING CALCULATIONS FOR NONRECIPROCAL PHOTONIC STRUCTURES. <i>International Journal of Modern Physics B</i> , 2014, 28, 1441012.	2.0	17
29	Nonreciprocal guided modes in photonic crystals of magnetic garnet particles with a planar defect. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 2104.	2.1	3
30	Breakdown of the linear acousto-optic interaction regime in phononic cavities. <i>Optics Express</i> , 2014, 22, 31595.	3.4	23
31	Multiple scattering calculations for nonreciprocal planar magnetoplasmonic nanostructures. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 146, 34-40.	2.3	4
32	Periodic structures of magnetic garnet particles for strong Faraday rotation enhancement. <i>Physical Review B</i> , 2014, 89, .	3.2	13
33	Nonreciprocal photonic surface states in periodic structures of magnetized plasma nanospheres. <i>Physical Review B</i> , 2013, 88, .	3.2	11
34	Nonreciprocal optical response of helical periodic structures of plasma spheres in a static magnetic field. <i>Physical Review B</i> , 2013, 87, .	3.2	21
35	Strong magnetochiral dichroism of helical structures of garnet particles. <i>Optics Letters</i> , 2013, 38, 4629.	3.3	7
36	Acousto-optic interaction enhancement in dual photonic-phononic cavities. , 2012, , .		0

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37	Helical assemblies of plasmonic nanorods as chiral metamaterials. , 2012, , .		1
38	Tuning the spontaneous light emission in phoxonic cavities. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2567.	2.1	13
39	Diffraction chains of plasmonic nanolenses: combining near-field focusing and collective enhancement mechanisms. Optics Letters, 2012, 37, 4624.	3.3	8
40	Calculation of waveguide modes in linear chains of metallic nanorods. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 827.	2.1	10
41	Photonic structures of metal-coated chiral spheres. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1165.	2.1	4
42	Giant Optical Activity of Helical Architectures of Plasmonic Nanorods. Journal of Physical Chemistry C, 2012, 116, 16674-16679.	3.1	50
43	Optical modes of chiral photonic composites. Microelectronic Engineering, 2012, 90, 152-154.	2.4	1
44	Light modulation in phoxonic nanocavities. Microelectronic Engineering, 2012, 90, 155-158.	2.4	21
45	Collective Hypersonic Excitations in Strongly Multiple Scattering Colloids. Physical Review Letters, 2011, 106, 175505.	7.8	20
46	Negative refraction in plasmonic crystals of metallic nanoshells. Metamaterials, 2011, 5, 169-177.	2.2	2
47	PhoXonic architectures for tailoring the acousto-optic interaction. , 2011, , .		2
48	Photonic eigenmodes and light propagation in periodic structures of chiral nanoparticles. Physical Review B, 2011, 83, .	3.2	4
49	Photonic surface states in plasmonic crystals of metallic nanoshells. Physical Review B, 2011, 84, .	3.2	14
50	Multiple-scattering calculations for layered phononic structures of nonspherical particles. Physical Review B, 2011, 83, .	3.2	9
51	Spiral-staircase photonic structures of metallic nanorods. Physical Review B, 2011, 84, .	3.2	11
52	Nonlinear interactions between high- Q optical and acoustic modes in dielectric particles. Physical Review B, 2011, 84, .	3.2	16
53	Plasmonic nanostructures and optical metamaterials: Studies by the layer-multiple-scattering method. Physica B: Condensed Matter, 2010, 405, 2967-2971.	2.7	3
54	Effective optical parameters of thin-film and bulk metamaterials of metallodielectric nanosandwiches. Optics Communications, 2010, 283, 4074-4077.	2.1	3

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55	Uniaxial crystals of metallodielectric nanosandwiches: effective optical parameters and negative refraction. <i>Journal of Optics (United Kingdom)</i> , 2010, 12, 115103.	2.2	3
56	Retrieving local effective constitutive parameters for anisotropic photonic crystals. <i>Physical Review B</i> , 2010, 81, .	3.2	12
57	Extraordinary refractive properties of photonic crystals of metallic nanorods. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, 2620.	2.1	10
58	Enhanced acousto-optic interactions in a one-dimensional photonic cavity. <i>Physical Review B</i> , 2010, 82, .	3.2	96
59	Absolute spectral gaps for infrared light and hypersound in three-dimensional metallodielectric photonic crystals. <i>Applied Physics Letters</i> , 2010, 96, 231917.	3.3	46
60	Tailoring plasmons with metallic nanorod arrays. <i>Physical Review B</i> , 2009, 80, .	3.2	29
61	Multiple-scattering calculations for plasmonic nanostructures. <i>International Journal of Nanotechnology</i> , 2009, 6, 137.	0.2	8
62	Negative effective permeability of multilayers of ordered arrays of metal-dielectric nanosandwiches. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
63	Optical properties of two-dimensional periodic arrays of metallodielectric nanosandwiches. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 3701-3703.	0.8	0
64	Tight-binding description of single-mode cavity-plasmon waveguides in the frequency and time domain. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 015202.	1.8	3
65	Simultaneous Occurrence of Structure-Directed and Particle-Resonance-Induced Phononic Gaps in Colloidal Films. <i>Physical Review Letters</i> , 2008, 100, 194301.	7.8	117
66	Plasmonic excitations in ordered assemblies of metallic nanoshells. <i>Proceedings of SPIE</i> , 2008, , .	0.8	12
67	Understanding artificial optical magnetism of periodic metal-dielectric-metal layered structures. <i>Physical Review B</i> , 2008, 78, .	3.2	42
68	Collective plasmonic modes in ordered assemblies of metallic nanoshells. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 075232.	1.8	43
69	Optical properties of periodic structures of metallic nanodisks. <i>Physical Review B</i> , 2008, 77, .	3.2	36
70	Calculations of the optical response of metallodielectric nanostructures of nonspherical particles by a layer-multiple-scattering method. , 2008, , .		1
71	Frequency and time domain analysis of cavity plasmon waveguides. , 2007, , .		0
72	Propagation of electromagnetic waves through microstructured polar materials. <i>Physical Review B</i> , 2007, 75, .	3.2	7

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73	Elastic Properties and Glass Transition of Supported Polymer Thin Films. <i>Macromolecules</i> , 2007, 40, 7283-7290.	4.8	70
74	Hypersonic acoustic excitations in binary colloidal crystals: Big versus small hard sphere control. <i>Journal of Chemical Physics</i> , 2007, 126, 014707.	3.0	18
75	Layer-multiple-scattering method for photonic crystals of nonspherical particles. <i>Physical Review B</i> , 2006, 73, .	3.2	75
76	Observation and tuning of hypersonic bandgaps in colloidal crystals. <i>Nature Materials</i> , 2006, 5, 830-836.	27.5	252
77	Cavity-plasmon waveguides: Multiple scattering calculations of dispersion in weakly coupled dielectric nanocavities in a metallic host material. <i>Physical Review B</i> , 2006, 74, .	3.2	25
78	Guided and quasiguidded elastic waves in phononic crystal slabs. <i>Physical Review B</i> , 2006, 73, .	3.2	53
79	Linear chain of weakly coupled defects in a three-dimensional phononic crystal: A model acoustic waveguide. <i>Physical Review B</i> , 2006, 74, .	3.2	30
80	Scattering of light by a periodic array of metallic nanoparticles on a waveguide. <i>Journal of Physics: Conference Series</i> , 2005, 10, 131-134.	0.4	0
81	A layer-multiple-scattering method for phononic crystals and heterostructures of such. <i>Computer Physics Communications</i> , 2005, 166, 197-240.	7.5	121
82	Widening of Phononic Transmission Gaps via Anderson Localization. <i>Physical Review Letters</i> , 2005, 94, 205503.	7.8	30
83	The layer multiple-scattering method applied to phononic crystals. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2005, 220, 848-858.	0.8	19
84	Theoretical analysis of three-dimensional polaritonic photonic crystals. <i>Physical Review B</i> , 2005, 72, .	3.2	35
85	Optical properties of a periodic monolayer of metallic nanospheres on a dielectric waveguide. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 1791-1802.	1.8	37
86	Optical excitation of coupled waveguide-particle plasmon modes: A theoretical analysis. <i>Physical Review B</i> , 2004, 69, .	3.2	31
87	Green's function formalism for phononic crystals. <i>Physical Review B</i> , 2004, 69, .	3.2	81
88	Anderson localization of light in inverted opals. <i>Physical Review B</i> , 2003, 68, .	3.2	48
89	Waveguides of defect chains in photonic crystals. <i>Physical Review B</i> , 2002, 65, .	3.2	26
90	Formation of absolute frequency gaps in three-dimensional solid phononic crystals. <i>Physical Review B</i> , 2002, 66, .	3.2	112

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91	Acoustic properties of colloidal crystals. <i>Physical Review B</i> , 2002, 65, .	3.2	66
92	Scattering of elastic waves by a periodic monolayer of spheres. <i>Physical Review B</i> , 2002, 66, .	3.2	35
93	Scattering and absorption of light by periodic and nearly periodic metallodielectric structures. <i>Optical and Quantum Electronics</i> , 2002, 34, 227-234.	3.3	43
94	Applications of the layer-KKR method to photonic crystals. <i>Optics Express</i> , 2001, 8, 197.	3.4	66
95	Optical transparency of mesoporous metals. <i>Solid State Communications</i> , 2001, 118, 69-73.	1.9	36
96	On wave propagation in inhomogeneous systems. <i>Physica B: Condensed Matter</i> , 2001, 296, 167-173.	2.7	31
97	Effect of Stacking Faults on the Optical Properties of Inverted Opals. <i>Physical Review Letters</i> , 2001, 86, 4811-4814.	7.8	70
98	Effect of Moderate Disorder on the Absorbance of Plasma Spheres Distributed in a Host Dielectric Medium. , 2001, , 383-387.		0
99	Band-Structure and Transmittance Calculations for Phononic Crystals by the LKKR Method. , 2001, , 519-525.		0
100	MULTEM 2: A new version of the program for transmission and band-structure calculations of photonic crystals. <i>Computer Physics Communications</i> , 2000, 132, 189-196.	7.5	287
101	Scattering of elastic waves by periodic arrays of spherical bodies. <i>Physical Review B</i> , 2000, 62, 278-291.	3.2	275
102	Phononic crystals with planar defects. <i>Physical Review B</i> , 2000, 62, 5536-5540.	3.2	113
103	Scattering of electromagnetic waves by nearly periodic structures. <i>Physical Review B</i> , 2000, 61, 8099-8107.	3.2	39
104	First-principles calculations for vacancy formation energies in Cu and Al; non-local effect beyond the LSDA and lattice distortion. <i>Computational Materials Science</i> , 1999, 14, 56-61.	3.0	53
105	Optical properties of metallodielectric photonic crystals. <i>Physical Review B</i> , 1999, 60, 5359-5365.	3.2	119
106	Photonic crystals of chiral spheres. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1999, 16, 343.	1.5	14
107	Heterostructures of photonic crystals: frequency bands and transmission coefficients. <i>Computer Physics Communications</i> , 1998, 113, 49-77.	7.5	382
108	Low-field Hall coefficient of Al-4d dilute alloys: The role of the anisotropic impurity scattering. <i>Solid State Communications</i> , 1998, 106, 405-408.	1.9	0

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109	Magnetic impurity states in simple metals: A study of the spin-polarization energy. Physical Review B, 1998, 58, 1096-1099.	3.2	1
110	Impurity bands in photonic insulators. Physical Review B, 1998, 57, 12127-12133.	3.2	222
111	Hyperfine Fields of Impurities on Ni and Fe Surfaces. Physical Review Letters, 1998, 81, 1505-1508.	7.8	19
112	Hyperfine fields of probe atoms on the (001) surface of Ni. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 78, 435-440.	0.6	4
113	Low-field galvanomagnetic properties of aluminium-based dilute alloys. Journal of Physics Condensed Matter, 1997, 9, 8997-9006.	1.8	1
114	Lattice distortion in Cu-based dilute alloys: A first-principles study by the KKR Green-function method. Physical Review B, 1997, 55, 4157-4167.	3.2	129
115	Theoretical analysis of the photonic band structure of face-centred cubic colloidal crystals. Journal of Physics Condensed Matter, 1997, 9, 10261-10270.	1.8	26
116	Ab initio study of structural distortion and its influence on the magnetic properties of metallic dilute alloys. Computational Materials Science, 1997, 8, 131-135.	3.0	20
117	Localized electromagnetic modes in nonlinear superlattices. Physical Review B, 1996, 54, 16452-16455.	3.2	2
118	Layer-by-Layer Methods in the Study of Photonic Crystals and Related Problems. , 1996, , 229-251.		0
119	Ab-Initio Calculation of the Lattice Relaxation in Dilute Alloys. NATO ASI Series Series B: Physics, 1996, , 419-424.	0.2	0
120	Magnetic behavior of transition-metal impurities in alkali-earth metals. Physical Review B, 1995, 51, 11473-11478.	3.2	8
121	Low-temperature thermopower of Al-based dilute alloys. Journal of Physics Condensed Matter, 1995, 7, 4665-4671.	1.8	6
122	Optical Activity of Photonic Crystals. Journal of Modern Optics, 1995, 42, 619-626.	1.3	29
123	Magnetic impurities in simple metals. Physica Scripta, 1994, 50, 445-448.	2.5	1
124	Planar defects in photonic crystals. Journal of Physics Condensed Matter, 1994, 6, 6257-6264.	1.8	23
125	Electronic structure of 4d impurities in Rb: a local-spin-density approximation +U density-functional study. Journal of Physics Condensed Matter, 1994, 6, 11221-11228.	1.8	1
126	Calculation of the residual resistivity and the low-field Hall coefficient of 3d and 4s impurities in aluminum. Physical Review B, 1994, 49, 16117-16122.	3.2	10

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127	Optical properties of layers and crystals of spherical particles. Applied Surface Science, 1993, 65-66, 13-17.	6.1	1
128	Observation of a resonance in the spin-orbit scattering of 5(s, p) impurities in Mg and Cu. Solid State Communications, 1993, 87, 471-474.	1.9	1
129	Green's function calculations of the hyperfine interaction for impurities in metals and for metallic interfaces. Hyperfine Interactions, 1993, 78, 341-359.	0.5	11
130	Can 5d and sp impurities be magnetic?. Physical Review Letters, 1993, 71, 629-632.	7.8	27
131	The formation of localized moments in dilute alloys: a critical behaviour. Journal of Physics Condensed Matter, 1993, 5, 5663-5666.	1.8	4
132	Scattering of electromagnetic waves by a disordered two-dimensional array of spheres. Journal of Physics Condensed Matter, 1993, 5, 8859-8868.	1.8	19
133	First-principles calculations of the spin-orbit scattering cross section of sp impurities in Mg. Physical Review Letters, 1992, 69, 2110-2113.	7.8	17
134	Local spin moments of transition-metal impurities in monovalent simple-metal hosts. Physical Review B, 1992, 46, 10858-10865.	3.2	35
135	Scattering of electromagnetic waves by periodic structures. Journal of Physics Condensed Matter, 1992, 4, 7389-7400.	1.8	169
136	Optical Properties of a Two-Dimensional Array of Metallic Spheres on a Substrate. Acta Physica Polonica A, 1992, 81, 91-99.	0.5	6
137	Optical properties of thin discontinuous metal films. Journal of Physics Condensed Matter, 1991, 3, 8149-8157.	1.8	31
138	Formation of local spin moments of 3d impurities diluted in noble and alkali metal hosts. Journal of Physics Condensed Matter, 1991, 3, 3777-3784.	1.8	16
139	Calculation of shape-truncation functions for Voronoi polyhedra. Journal of Physics Condensed Matter, 1991, 3, 7599-7606.	1.8	48
140	Solute-vacancy interactions in Cu and Ag. Journal of Physics Condensed Matter, 1991, 3, 8793-8801.	1.8	4
141	Vacancy-solute interactions in Cu, Ni, Ag, and Pd. Physical Review B, 1991, 43, 9487-9497.	3.2	58
142	An efficient numerical method to calculate shape truncation functions for Wigner-Seitz atomic polyhedra. Computer Physics Communications, 1990, 60, 231-238.	7.5	74
143	Electronic structure and magnetic properties of dilute Fe alloys with transition-metal impurities. Physical Review B, 1989, 40, 8203-8212.	3.2	159
144	Electronic Structure and Magnetic Properties of Impurities in Metals. , 1989, , 377-420.		2

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145	Abinitioelectronic structure calculations for point defects in CoAl and CoGa. Physical Review B, 1987, 35, 2705-2713.	3.2	25
146	Charge and magnetization perturbations around impurities in nickel. Physical Review B, 1987, 35, 6911-6922.	3.2	51
147	Treatment of lattice relaxations in dilute alloys within the Korringa-Kohn-Rostoker Greenâ€™s-function method. Physical Review B, 1987, 36, 6372-6382.	3.2	37
148	Electronic structure of Pd alloys. Solid State Communications, 1987, 62, 735-738.	1.9	35
149	Electronic structure of antistructure Co atoms and Co-vacancies in CoAl. Solid State Communications, 1986, 59, 429-432.	1.9	9
150	On the electronic structure of rare earth and actinide beryllides. Journal of Physics F: Metal Physics, 1986, 16, 837-843.	1.6	5
151	Point defects in ordered metallic compounds. I. Electronic-structure calculation by the linear-muffin-tinâ€™ orbital method. Physical Review B, 1986, 33, 5307-5318.	3.2	41
152	Point defects in ordered metallic compounds. II. Self-consistent studies of vacancies in FeAl. Physical Review B, 1986, 33, 5319-5327.	3.2	27
153	Self-consistent electronic structure of dilute metallic alloys by the LMTO-ASA method. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1985, 51, 151-160.	0.6	15
154	Electronic structure of 3d impurities in ferromagnetic iron. Journal De Physique, 1982, 43, 1497-1502.	1.8	18