Akhlesh Lakhtakia

List of Publications by Year
in descending order

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992	17,887	34493	54	54771	88
papers	citations	h-index		g-index	

1055	1055	1055	6920
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chiral sculptured thin films. Nature, 1996, 384, 616-616.	13.7	570
2	Electrodynamics of carbon nanotubes: Dynamic conductivity, impedance boundary conditions, and surface wave propagation. Physical Review B, 1999, 60, 17136-17149.	1.1	376
3	Surface Plasmon Resonance for Biosensing: A Mini-Review. Electromagnetics, 2008, 28, 214-242.	0.3	346
4	Sculptured Thin Films: Nanoengineered Morphology and Optics. , 2005, , .		276
5	First thin film realization of a helicoidal bianisotropic medium. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1995, 13, 2991-2993.	0.9	227
6	A new condition to identify isotropic dielectric-magnetic materials displaying negative phase velocity. Microwave and Optical Technology Letters, 2004, 41, 315-316.	0.9	209
7	The negative index of refraction demystified. European Journal of Physics, 2002, 23, 353-359.	0.3	193
8	Theory of optical scattering by achiral carbon nanotubes and their potential as optical nanoantennas. Physical Review B, 2006, 73, .	1.1	178
9	Surface electromagnetic waves: A review. Laser and Photonics Reviews, 2011, 5, 234-246.	4.4	156
10	Field equations, Huygensâ€™s principle, integral equations, and theorems for radiation and scattering of electromagnetic waves in isotropic chiral media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1988, 5, 175.	0.8	147
11	Vacuum deposition of chiral sculptured thin films with high optical activity. Applied Optics, 2000, 39, 642.	2.1	135
12	Engineered sculptured nematic thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1997, 15, 2148-2152.	0.9	132
13	Spacerless circular-polarization spectral-hole filters using chiral sculptured thin films: theory and experiment. Optics Communications, 2000, 184, 57-66.	1.0	129
14	Scattering and absorption characteristics of lossy dielectric, chiral, nonspherical objects. Applied Optics, 1985, 24, 4146.	2.1	123
15	STRONG AND WEAK FORMS OF THE METHOD OF MOMENTS AND THE COUPLED DIPOLE METHOD FOR SCATTERING OF TIME-HARMONIC ELECTROMAGNETIC FIELDS. International Journal of Modern Physics C, 1992, 03, 583-603.	0.8	122
16	On Planewave Remittances and Goosâ€“HÃnchen Shifts of Planar Slabs with Negative Real Permittivity and Permeability. Electromagnetics, 2003, 23, 71-75.	0.3	120
17	Terahertz metamaterials with semiconductor split-ring resonators for magnetostatic tunability. Optics Express, 2008, 16, 14390.	1.7	120
18	Semiconductor split-ring resonators for thermally tunable terahertz metamaterials. Journal of Modern Optics, 2009, 56, 554-557.	0.6	111

#	Article	IF	Citations
19	Plane waves with negative phase velocity in Faraday chiral mediums. Physical Review E, 2004, 69, 026602.	0.8	108
20	The circular Bragg phenomenon. Advances in Optics and Photonics, 2014, 6, 225.	12.1	105
21	Silica nanoparticles aid in structural leaf coloration in the Malaysian tropical rainforest understorey herb Mapania caudata. Annals of Botany, 2013, 112, 1141-1148.	1.4	100
22	Electronic and electromagnetic properties of nanotubes. Physical Review B, 1998, 57, 9485-9497.	1.1	94
23	A new procedure for improving the solution stability and extending the frequency range of the EBCM. IEEE Transactions on Antennas and Propagation, 1983, 31, 317-324.	0.8	92
24	Scattering by three-dimensional anisotropic scatterers. IEEE Transactions on Antennas and Propagation, 1989, 37, 800-802.	3.1	88
25	Maxwell Garnett and Bruggeman formalisms for a particulate composite with bianisotropic host medium. Microwave and Optical Technology Letters, 1997, 15, 263-266.	0.9	88
26	On two numerical techniques for light scattering by dielectric agglomerated structures. Journal of Research of the National Institute of Standards and Technology, 1993, 98, 699.	0.4	87
27	Growth of sculptured polymer submicronwire assemblies by vapor deposition. Polymer, 2005, 46, 9544-9548.	1.8	85
28	Sculptured-thin-film spectral holes for optical sensing of fluids. Optics Communications, 2001, 194, 33-46.	1.0	84
29	Sculptured thin filmsâ€"II. Experiments and applications. Materials Research Innovations, 1999, 2, 217-222.	1.0	81
30	Electromagnetic wave propagation in an almost circular bundle of closely packed metallic carbon nanotubes. Physical Review B, 2007, 76, .	1.1	77
31	Towards a metamaterial simulation of a spinning cosmic string. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2305-2308.	0.9	76
32	A Parametric Study of Microwave Reflection Characteristics of a Planar Achiral-Chiral Interface. IEEE Transactions on Electromagnetic Compatibility, 1986, 28, 90-95.	1.4	75
33	Electromagnetic planeâ€"wave response characteristics of nonâ€"axially excited slabs of dielectric thinâ€"film helicoidal bianisotropic mediums. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2000, 456, 125-161.	1.0	74
34	Sculptured thin films: accomplishments and emerging uses. Materials Science and Engineering C, 2002, 19, 427-434.	3.8	70
35	Biomimetization of butterfly wings by the conformal-evaporated-film-by-rotation technique for photonics. Applied Physics Letters, 2008, 93, 083901.	1.5	70
36	A limitation of the Bruggeman formalism for homogenization. Optics Communications, 2004, 234, 35-42.	1.0	69

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37	Nonlinear Electron Transport Effects in a Chiral Carbon Nanotube. Physical Review Letters, 1997, 79, 1102-1105.	2.9	66
38	An Electromagnetic Trinity from â€œNegative Permittivityâ€•and â€œNegative Permeabilityâ€• Journal of Infrared, Millimeter and Terahertz Waves, 2002, 23, 813-818.	0.6	66
39	On the symmetries of the Julia sets for the process zâ‡’zp+c. Journal of Physics A, 1987, 20, 3533-3535.	1.6	65
40	Analysis of sensor signals shows turning on a lathe exhibits low-dimensional chaos. Physical Review E, 1995, 52, 2375-2387.	0.8	65
41	Surface-enhanced fluorescence from metal sculptured thin films with application to biosensing in water. Applied Physics Letters, 2009, 94, 063106.	1.5	65
42	Bilayer-fish-scale ultrabroad terahertz bandpass filter. Optics Letters, 2012, 37, 906.	1.7	65
43	Are linear, nonreciprocal, biisotropic media forbidden?. IEEE Transactions on Microwave Theory and Techniques, 1994, 42, 1715-1716.	2.9	64
44	On Perfect Lenses and Nihility. Journal of Infrared, Millimeter and Terahertz Waves, 2002, 23, 339-343.	0.6	63
45	Blending of nanoscale and microscale in uniform large-area sculptured thin-film architectures. Nanotechnology, 2004, 15, 303-310.	1.3	62
46	Chiral mirror and optical resonator designs for circularly polarized light: suppression of cross-polarized reflectances and transmittances. Optics Communications, 2002, 210, 201-211.	1.0	61
47	Dyakonov-Tamm wave at the planar interface of a chiral sculptured thin film and an isotropic dielectric material. Journal of the European Optical Society-Rapid Publications, 0, 2, .	0.9	60
48	Sculptured thin films as ultranarrow-bandpass circular-polarization filters. Optics Communications, 1999, 168, 457-465.	1.0	59
49	Ambichiral, equichiral and finely chiral layered structures. Optics Communications, 2004, 239, 353-358.	1.0	59
50	Negative refraction, negative phase velocity, and counterposition in bianisotropic materials and metamaterials. Physical Review B, 2009, 79, .	1.1	59
51	Making Solar Cells a Reality in Every Home: Opportunities and Challenges for Photovoltaic Device Design. IEEE Journal of the Electron Devices Society, 2013, 1, 129-144.	1.2	59
52	On the surface plasmon polariton wave at the planar interface of a metal and a chiral sculptured thin film. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2009, 465, 87-107.	1.0	58
53	Transmission ellipsometry of a thin-film helicoidal bianisotropic medium. Applied Physics Letters, 1997, 71, 1180-1182.	1.5	57
54	Chapter 3 Electromagnetic fields in linear bianisotropic mediums. Progress in Optics, 2008, 51, 121-209.	0.4	57

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55	Optical sensing of analytes in aqueous solutions with a multiple surface-plasmon-polariton-wave platform. Scientific Reports, 2013, 3, 1409.	1.6	56
56	Comments on recent criticism of the Tâ€matrix method. Journal of the Acoustical Society of America, 1988, 84, 2280-2284.	0.5	55
57	Macroscopic theory of the coupled dipole approximation method. Optics Communications, 1990, 79, 1-5.	1.0	55
58	Spectral-hole filter fabricated using sculptured thin-film technology. Optics Communications, 2000, 177, 79-84.	1.0	55
59	Background and survey of bioreplication techniques. Bioinspiration and Biomimetics, 2011, 6, 031001.	1.5	53
60	Restricted equivalence of paired epsilonâ€“negative and muâ€“negative layers to a negative phaseâ€“velocity material (aliasleftâ€“handed material). Optik, 2003, 114, 305-307.	1.4	52
61	Extended Maxwell Garnett model for chiral-in-chiral composites. Journal Physics D: Applied Physics, 1993, 26, 1746-1758.	1.3	51
62	Modeling Chiral Sculptured Thin Films as Platforms for Surface-Plasmonic-Polaritonic Optical Sensing. IEEE Sensors Journal, 2012, 12, 273-280.	2.4	51
63	General theory of the Purcell-Pennypacker scattering approach and its extension to bianisotropic scatterers. Astrophysical Journal, 1992, 394, 494.	1.6	50
64	Observation of the Dyakonov-Tamm Wave. Physical Review Letters, 2013, 111, 243902.	2.9	49
65	Broadband Light Absorption with Multiple Surface Plasmon Polariton Waves Excited at the Interface of a Metallic Grating and Photonic Crystal. ACS Nano, 2013, 7, 4995-5007.	7.3	49
66	Scattering by periodic achiralâ€“chiral interfaces. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1989, 6, 1675.	0.8	48
67	Sculptured thin filmsâ€”I. Concepts. Materials Research Innovations, 1997, 1, 145-148.	1.0	48
68	On surface plasmon-polariton waves guided by the interface of a metal and a rugate filter with a sinusoidal refractive-index profile. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2218.	0.9	48
69	Graphene pixel-based polarization-insensitive metasurface for almost perfect and wideband terahertz absorption. Journal of the Optical Society of America B: Optical Physics, 2019, 36, F84.	0.9	48
70	Equivalent dipole moments of helical arrangements of small, isotropic, pointâ€polarizable scatters: Application to chiral polymer design. Journal of Applied Physics, 1988, 63, 280-284.	1.1	47
71	Replication of fly eyes by the conformal-evaporated-film-by-rotation technique. Nanotechnology, 2008, 19, 355704.	1.3	47
72	Dilute random distribution of small chiral spheres. Applied Optics, 1990, 29, 3627.	2.1	46

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73	Maxwellâ€garnett model for composites of electrically small uniaxial objects. Microwave and Optical Technology Letters, 1993, 6, 681-684.	0.9	46
74	High-speed optical humidity sensors based on chiral sculptured thin films. Sensors and Actuators B: Chemical, 2011, 156, 593-598.	4.0	45
75	Further results on light propagation in helicoidal bianisotropic mediums: oblique propagation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 1997, 453, 93-105.	1.0	44
76	On selective absorption in an axially excited slab of a dielectric thin-film helicoidal bianisotropic medium. Optics Communications, 1998, 145, 171-187.	1.0	44
77	Anomalous axial propagation in helicoidal bianisotropic media. Optics Communications, 1998, 157, 193-201.	1.0	44
78	On calibration of a nominal structureâ€“property relationship model for chiral sculptured thin films by axial transmittance measurements. Optics Communications, 2002, 209, 369-375.	1.0	44
79	Vapor-deposited thin films with negative real refractive index in the visible regime. Optics Express, 2009, 17, 7784.	1.7	43
80	Bruggeman model for chiral particulate composites. Journal Physics D: Applied Physics, 1992, 25, 1390-1394.	1.3	42
81	Strong-property-fluctuation theory for homogenization of bianisotropic composites:â€ƒFormulation. Physical Review E, 2000, 62, 6052-6064.	0.8	42
82	An Electromagnetic Trinity from â€œNegative Permittivityâ€• and â€œNegative Permeabilityâ€• Journal of Infrared, Millimeter and Terahertz Waves, 2001, 22, 1731-1734.	0.6	42
83	Conditions for Voigt wave propagation in linear, homogeneous, dielectric mediums. Optik, 2001, 112, 493-495.	1.4	42
84	Orthorhombic Materials and Perfect Lenses. Journal of Infrared, Millimeter and Terahertz Waves, 2003, 24, 19-23.	0.6	42
85	Comment I on â€œResonant and antiresonant frequency dependence of the effective parameters of metamaterialsâ€• Physical Review E, 2004, 70, 048601; author reply 048603.	0.8	42
86	Fibroblast cell attachment and growth on nanoengineered sculptured thin films. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 81B, 219-223.	1.6	42
87	Magnetic and magnetothermal tunabilities of subwavelength-hole arrays in a semiconductor sheet. Optics Letters, 2009, 34, 1465.	1.7	42
88	Extension of the iterative EBCM to calculate scattering by low-loss or lossless elongated dielectric objects. Applied Optics, 1984, 23, 948.	2.1	41
89	Strong-property-fluctuation theory for homogenizing chiral particulate composites. Physical Review E, 1995, 51, 5701-5707.	0.8	41
90	Human fibroblast attachment on fibrous parylene-C thin-film substrates. Materials Science and Engineering C, 2010, 30, 1252-1259.	3.8	41

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91	Grating-coupled excitation of multiple surface plasmon-polariton waves. Physical Review A, 2011, 84, .	1.0	41
92	Lorentz covariance, Occam's razor, and a constraint on linear constitutive relations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 213, 107-111.	0.9	40
93	Bruggeman formalism for two models of uniaxial composite media: Dielectric properties. Composites Science and Technology, 1997, 57, 185-196.	3.8	40
94	Second harmonic emission from an axially excited slab of a dielectric thin-film helicoidal bianisotropic medium. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 1998, 454, 1535-1571.	1.0	40
95	Spectral holes in Bragg reflection from chiral sculptured thin films: circular polarization filters. Optics Communications, 2000, 177, 57-68.	1.0	40
96	Brief Overview of Recent Developments on Negative Phaseâ€“Velocity Mediums (alias Leftâ€“Handed) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.7	40
97	Specular and nonspecular, thickness-dependent, spectral holes in a slanted chiral sculptured thin film with a central twist defect. Optics Communications, 2003, 215, 79-92.	1.0	40
98	Handedness reversal of circular Bragg phenomenon due to negative real permittivity and permeability. Optics Express, 2003, 11, 716.	1.7	40
99	One-dimensional bigyrotropic magnetic photonic crystals. Applied Physics Letters, 2004, 85, 5932-5934.	1.5	40
100	Lateral shifts of optical beams on reflection by slanted chiral sculptured thin films. Optics Communications, 2004, 235, 107-132.	1.0	40
101	Multiple surface plasmon polariton waves. Electronics Letters, 2009, 45, 1137.	0.5	40
102	Biologically inspired achromatic waveplates for visible light. Nature Communications, 2011, 2, 363.	5.8	40
103	Reflection of plane waves at planar achiralâ€“chiral interfaces: independence of the reflected polarization state from the incident polarization state. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1990, 7, 1654.	0.8	39
104	The role of anisotropy in the Maxwell Garnett and Bruggeman formalisms for uniaxial particulate composite media. Journal Physics D: Applied Physics, 1997, 30, 230-240.	1.3	39
105	On the genesis of Post constraint in modern electromagnetism. Optik, 2004, 115, 151-158.	1.4	39
106	Gravitation and electromagnetic wave propagation with negative phase velocity. New Journal of Physics, 2005, 7, 75-75.	1.2	39
107	Effective medium theory of the microwave and the infrared properties of composites with carbon nanotube inclusions. Carbon, 1998, 36, 1833-1839.	5.4	38
108	Analysis of Acoustic Emission Signals in Machining. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 1999, 121, 568-576.	1.3	38

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109	Surface plasmon resonance from metallic columnar thin films. Photonics and Nanostructures - Fundamentals and Applications, 2009, 7, 176-185.	1.0	38
110	Would Brewster recognize today's Brewster angle?. Optics News, 1989, 15, 14.	0.2	37
111	Enhancement of optical activity of chiral sculptured thin films by suitable infiltration of void regions. Optik, 2001, 112, 145-148.	1.4	37
112	What happens to plane waves at the planar interfaces of mirror-conjugated chiral media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1989, 6, 23.	0.8	36
113	Uniformity constraint on recently conceptualised linear uniaxial bianisotropic media. Electronics Letters, 1994, 30, 1656-1657.	0.5	36
114	A State-Space Model of Fatigue Crack Growth. International Journal of Fracture, 1998, 90, 235-249.	1.1	36
115	The correct constitutive relations of chiroplasmas and chiroferrites. Microwave and Optical Technology Letters, 1998, 17, 405-408.	0.9	36
116	Supermodes of Chiral Photonic Filters with Combined Twist and Layer Defects. Physical Review Letters, 2003, 91, 223903.	2.9	36
117	Optimization of the absorption efficiency of an amorphous-silicon thin-film tandem solar cell backed by a metallic surface-relief grating. Applied Optics, 2013, 52, 966.	0.9	36
118	Elastic wave propagation in noncentrosymmetric, isotropic media: Dispersion and field equations. Journal of Applied Physics, 1988, 63, 5246-5250.	1.1	35
119	Dielectric thin-film helicoidal bianisotropic medium bilayers as tunable polarization-independent laser mirrors and notch filters. Microwave and Optical Technology Letters, 1998, 17, 135-140.	0.9	35
120	Negative index of refraction and distributed Bragg reflectors. Microwave and Optical Technology Letters, 2002, 34, 409-411.	0.9	35
121	Towards gravitationally assisted negative refraction of light by vacuum. Journal of Physics A, 2004, 37, L505-L510.	1.6	35
122	Electrically controlled optical bandgap in a structurally chiral material. Optics Communications, 2006, 259, 164-173.	1.0	35
123	Mass fabrication technique for polymeric replicas of arrays of insect corneas. Bioinspiration and Biomimetics, 2010, 5, 036001.	1.5	35
124	Polarizability dyadics of small bianisotropic spheres. Journal De Physique, 1990, 51, 2235-2242.	1.8	35
125	Iterative extended boundary condition method for scattering by objects of high aspect ratios. Journal of the Acoustical Society of America, 1984, 76, 906-912.	0.5	34
126	On the constitutive parameters of a chiroferrite composite medium. Microwave and Optical Technology Letters, 1998, 18, 342-345.	0.9	34

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127	On Electromagnetic Waves in Biaxial Bianisotropic Media. Electromagnetics, 1999, 19, 351-362.	0.3	34
128	Rigorous electromagnetic modeling of near-field phase-shifting contact lithography. Microelectronic Engineering, 2004, 71, 34-53.	1.1	34
129	An Iterative Extended Boundary Condition Method for Solving the Absorption Characteristics of Lossy Dielectric Objects of Large Aspect Ratios. IEEE Transactions on Microwave Theory and Techniques, 1983, 31, 640-647.	2.9	33
130	Simultaneous negative- and positive-phase-velocity propagation in an isotropic chiral medium. Microwave and Optical Technology Letters, 2007, 49, 1245-1246.	0.9	33
131	On the Bergmanâ€“Milton bounds for the homogenization of dielectric composite materials. Optics Communications, 2007, 271, 470-474.	1.0	33
132	Surface-plasmon wave at the planar interface of a metal film and a structurally chiral medium. Optics Communications, 2007, 279, 291-297.	1.0	33
133	Excitation of multiple surface-plasmon-polariton waves guided by the periodically corrugated interface of a metal and a periodic multilayered isotropic dielectric material. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 704.	0.9	33
134	On absorption by non-axially excited slabs of dielectric thin-film helicoidal bianisotropic mediums. EPJ Applied Physics, 2000, 10, 173-184.	0.3	33
135	The tellegen medium is â€œa Boojum, you seeâ€• Journal of Infrared, Millimeter and Terahertz Waves, 1994, 15, 1625-1630.	0.6	32
136	Homogenisation of similarly oriented, metallic, ellipsoidal inclusions using the bilocally approximated strong-property-fluctuation theory. Optics Communications, 2001, 197, 89-95.	1.0	32
137	Multilayered structures for p- and s-polarized long-range surface-plasmon-polariton propagation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 2600.	0.8	32
138	Nanotechnology: A Crash Course. , 2010, , .		32
139	Reflection and Transmission of Plane Waves at the Planar Interface of a General Uniaxial Medium and Free Space. Journal of Modern Optics, 1991, 38, 649-657.	0.6	31
140	Green's functions and Brewster condition for a halfspace bounded by an anisotropic impedance plane. Journal of Infrared, Millimeter and Terahertz Waves, 1992, 13, 161-170.	0.6	31
141	On determining gas concentrations using dielectric thin-film helicoidal bianisotropic medium bilayers. Sensors and Actuators B: Chemical, 1998, 52, 243-250.	4.0	31
142	Experimental realization of sculptured-thin-film polarization-discriminatory light-handedness inverters. Optical Engineering, 2000, 39, 2831.	0.5	31
143	Incremental and differential Maxwell Garnett formalisms for bi-anisotropic composites. Composites Science and Technology, 2001, 61, 13-18.	3.8	31
144	Spatially Organized Free-Standing Poly(p-xylylene) Nanowires Fabricated by Vapor Deposition. Langmuir, 2007, 23, 5861-5863.	1.6	31

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145	Fabrication of free-standing replicas of fragile, laminar, chitinous biotemplates. Bioinspiration and Biomimetics, 2009, 4, 034001.	1.5	31
146	Classical electromagnetic model of surface states in topological insulators. Journal of Nanophotonics, 2016, 10, 033004.	0.4	31
147	Radiation by a point electric dipole embedded in a chiral sphere. Journal Physics D: Applied Physics, 1990, 23, 481-485.	1.3	30
148	Axial propagation in general helicoidal bianisotropic media. Microwave and Optical Technology Letters, 1993, 6, 804-806.	0.9	30
149	Simple model for dielectric thin-film helicoidal bianisotropic media. Optics Communications, 1998, 158, 119-126.	1.0	30
150	Detecting emerald ash borers (Agrilus planipennis) using branch traps baited with 3D-printed beetle decoys. Journal of Pest Science, 2015, 88, 267-279.	1.9	30
151	On the Maxwellâ€“Garnett model of chiral composites. Journal of Materials Research, 1993, 8, 917-922.	1.2	29
152	Constraint on linear, homogeneous, constitutive relations. Physical Review E, 1994, 50, 5017-5019.	0.8	29
153	On percolation and circular Bragg phenomenon in metallic, helicoidally periodic, sculptured thin films. Microwave and Optical Technology Letters, 2000, 24, 239-244.	0.9	29
154	Comparison of two methods for oblique propagation in helicoidal bianisotropic mediums. Optics Communications, 2004, 230, 369-386.	1.0	29
155	Uniaxial dielectric media with hyperbolic dispersion relations. Microwave and Optical Technology Letters, 2006, 48, 363-367.	0.9	29
156	Thickness-controlled hydrophobicity of fibrous Parylene-C films. Materials Letters, 2010, 64, 1063-1065.	1.3	29
157	Dyakonov-Tamm waves guided by the interface between two structurally chiral materials that differ only in handedness. Physical Review A, 2010, 81, .	1.0	29
158	Constraint on linear, spatiotemporally nonlocal, spatiotemporally nonhomogeneous constitutive relations. Journal of Infrared, Millimeter and Terahertz Waves, 1996, 17, 1867-1878.	0.6	28
159	Homogenization of linear bianisotropic particulate composite media â€“ Numerical studies. International Journal of Applied Electromagnetics and Mechanics, 1998, 9, 167-178.	0.3	28
160	Development and assessment of coupled wave theory of axial propagation in thin-film helicoidal bianisotropic media. Part 1: Reflectances and transmittances. Journal of Modern Optics, 2000, 47, 973-991.	0.6	28
161	Global and local perspectives of gravitationally assisted negative-phase-velocity propagation of electromagnetic waves in vacuum. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 336, 89-96.	0.9	28
162	Defect modes in multisection helical photonic crystals. Optics Express, 2005, 13, 7319.	1.7	28

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163	Full-Wave Hybrid Technique for 3-D Isotropic-Chiral-Material Discontinuities in Rectangular Waveguides: Theory and Experiment. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2815-2825.	2.9	28
164	Towards a realization of Schwarzschild-(anti-)de Sitter spacetime as a particulate metamaterial. Physical Review B, 2011, 83, .	1.1	28
165	Progress on bioinspired, biomimetic, and bioreplication routes to harvest solar energy. Applied Physics Reviews, 2017, 4, .	5.5	28
166	Thermally sensitive scattering of terahertz waves by coated cylinders for tunable invisibility and masking. Optics Express, 2018, 26, 1.	1.7	28
167	Efficiency enhancement of ultrathin CIGS solar cells by optimal bandgap grading. Applied Optics, 2019, 58, 6067.	0.9	28
168	On a new class of planar fractals: the Pascal-Sierpinski gaskets. Journal of Physics A, 1986, 19, 1753-1759.	1.6	27
169	Application of strong permittivity fluctuation theory for isotropic, cubically nonlinear, composite mediums. Optics Communications, 2001, 192, 145-151.	1.0	27
170	Surface Electromagnetic Wave at a Tilted Uniaxial Bicrystalline Interface. Electromagnetics, 2006, 26, 629-642.	0.3	27
171	Classification of dispersion equations for homogeneous, dielectric-magnetic, uniaxial materials. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 949.	0.8	27
172	Surface waves with simple exponential transverse decay at a biaxial bicrystalline interface. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 856.	0.8	27
173	Surface waves at a biaxial bicrystalline interface. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 2974.	0.8	27
174	Specific Biomimetic Hydroxyapatite Nanotopographies Enhance Osteoblastic Differentiation and Bone Graft Osteointegration. Tissue Engineering - Part A, 2013, 19, 1704-1712.	1.6	27
175	Bioreplicated visual features of nanofabricated buprestid beetle decoys evoke stereotypical male mating flights. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14106-14111.	3.3	27
176	Influence of Impedance Mismatch Between a Chiral Scatterer and the Surrounding Chiral Medium. Journal of Modern Optics, 1989, 36, 1385-1392.	0.6	26
177	An investigative report on the constructive relations of linear magnetoelectric media. Journal of Infrared, Millimeter and Terahertz Waves, 1994, 15, 1363-1372.	0.6	26
178	Spectral Greenâ€™s function for wave excitation and propagation in a piezoelectric, continuously twisted, structurally chiral medium. Journal of the Acoustical Society of America, 1997, 101, 2052-2058.	0.5	26
179	Selective growth of sculptured nanowires on microlithographic lattices. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 3426.	1.6	26
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