

# Akhlesh Lakhtakia

## List of Publications by Year in descending order

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992  
papers

17,887  
citations

28274

55  
h-index

48315

88  
g-index

1055  
all docs

1055  
docs citations

1055  
times ranked

6081  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chiral sculptured thin films. <i>Nature</i> , 1996, 384, 616-616.	27.8	570
2	Electrodynamics of carbon nanotubes: Dynamic conductivity, impedance boundary conditions, and surface wave propagation. <i>Physical Review B</i> , 1999, 60, 17136-17149.	3.2	376
3	Surface Plasmon Resonance for Biosensing: A Mini-Review. <i>Electromagnetics</i> , 2008, 28, 214-242.	0.7	346
4	Sculptured Thin Films: Nanoengineered Morphology and Optics. , 2005, , .		276
5	First thin film realization of a helicoidal bianisotropic medium. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1995, 13, 2991-2993.	2.1	227
6	A new condition to identify isotropic dielectric-magnetic materials displaying negative phase velocity. <i>Microwave and Optical Technology Letters</i> , 2004, 41, 315-316.	1.4	209
7	The negative index of refraction demystified. <i>European Journal of Physics</i> , 2002, 23, 353-359.	0.6	193
8	Theory of optical scattering by achiral carbon nanotubes and their potential as optical nanoantennas. <i>Physical Review B</i> , 2006, 73, .	3.2	178
9	Surface electromagnetic waves: A review. <i>Laser and Photonics Reviews</i> , 2011, 5, 234-246.	8.7	156
10	Field equations, Huygens's principle, integral equations, and theorems for radiation and scattering of electromagnetic waves in isotropic chiral media. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1988, 5, 175.	1.5	147
11	Vacuum deposition of chiral sculptured thin films with high optical activity. <i>Applied Optics</i> , 2000, 39, 642.	2.1	135
12	Engineered sculptured nematic thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1997, 15, 2148-2152.	2.1	132
13	Spacerless circular-polarization spectral-hole filters using chiral sculptured thin films: theory and experiment. <i>Optics Communications</i> , 2000, 184, 57-66.	2.1	129
14	Scattering and absorption characteristics of lossy dielectric, chiral, nonspherical objects. <i>Applied Optics</i> , 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. <i>International Journal of Modern Physics C</i> , 1992, 03, 583-603.	1.7	122
16	On Planewave Remittances and Goos-Hänchen Shifts of Planar Slabs with Negative Real Permittivity and Permeability. <i>Electromagnetics</i> , 2003, 23, 71-75.	0.7	120
17	Terahertz metamaterials with semiconductor split-ring resonators for magnetostatic tunability. <i>Optics Express</i> , 2008, 16, 14390.	3.4	120
18	Semiconductor split-ring resonators for thermally tunable terahertz metamaterials. <i>Journal of Modern Optics</i> , 2009, 56, 554-557.	1.3	111

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19	Plane waves with negative phase velocity in Faraday chiral mediums. <i>Physical Review E</i> , 2004, 69, 026602.	2.1	108
20	The circular Bragg phenomenon. <i>Advances in Optics and Photonics</i> , 2014, 6, 225.	25.5	105
21	Silica nanoparticles aid in structural leaf coloration in the Malaysian tropical rainforest understorey herb <i>Mapania caudata</i> . <i>Annals of Botany</i> , 2013, 112, 1141-1148.	2.9	100
22	Electronic and electromagnetic properties of nanotubes. <i>Physical Review B</i> , 1998, 57, 9485-9497.	3.2	94
23	A new procedure for improving the solution stability and extending the frequency range of the EBCM. <i>IEEE Transactions on Antennas and Propagation</i> , 1983, 31, 317-324.	0.8	92
24	Scattering by three-dimensional anisotropic scatterers. <i>IEEE Transactions on Antennas and Propagation</i> , 1989, 37, 800-802.	5.1	88
25	Maxwell Garnett and Bruggeman formalisms for a particulate composite with bianisotropic host medium. <i>Microwave and Optical Technology Letters</i> , 1997, 15, 263-266.	1.4	88
26	On two numerical techniques for light scattering by dielectric agglomerated structures. <i>Journal of Research of the National Institute of Standards and Technology</i> , 1993, 98, 699.	1.2	87
27	Growth of sculptured polymer submicronwire assemblies by vapor deposition. <i>Polymer</i> , 2005, 46, 9544-9548.	3.8	85
28	Sculptured-thin-film spectral holes for optical sensing of fluids. <i>Optics Communications</i> , 2001, 194, 33-46.	2.1	84
29	Sculptured thin films—II. Experiments and applications. <i>Materials Research Innovations</i> , 1999, 2, 217-222.	2.3	81
30	Electromagnetic wave propagation in an almost circular bundle of closely packed metallic carbon nanotubes. <i>Physical Review B</i> , 2007, 76, .	3.2	77
31	Towards a metamaterial simulation of a spinning cosmic string. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 2305-2308.	2.1	76
32	A Parametric Study of Microwave Reflection Characteristics of a Planar Achiral-Chiral Interface. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 1986, 28, 90-95.	2.2	75
33	Electromagnetic plane-wave response characteristics of non-axially excited slabs of dielectric thin-film helicoidal bianisotropic mediums. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2000, 456, 125-161.	2.1	74
34	Sculptured thin films: accomplishments and emerging uses. <i>Materials Science and Engineering C</i> , 2002, 19, 427-434.	7.3	70
35	Biomimetization of butterfly wings by the conformal-evaporated-film-by-rotation technique for photonics. <i>Applied Physics Letters</i> , 2008, 93, 083901.	3.3	70
36	A limitation of the Bruggeman formalism for homogenization. <i>Optics Communications</i> , 2004, 234, 35-42.	2.1	69

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37	Nonlinear Electron Transport Effects in a Chiral Carbon Nanotube. Physical Review Letters, 1997, 79, 1102-1105.	7.8	66
38	An Electromagnetic Trinity from $\epsilon$ -Negative Permittivity and $\mu$ -Negative Permeability. 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 $z \mapsto z^p + c$ . 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.	2.1	65
41	Surface-enhanced fluorescence from metal sculptured thin films with application to biosensing in water. Applied Physics Letters, 2009, 94, 063106.	3.3	65
42	Bilayer-fish-scale ultrabroad terahertz bandpass filter. Optics Letters, 2012, 37, 906.	3.3	65
43	Are linear, nonreciprocal, biisotropic media forbidden?. IEEE Transactions on Microwave Theory and Techniques, 1994, 42, 1715-1716.	4.6	64
44	On Perfect Lenses and Nihilty. 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.	2.6	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.	2.1	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, .	1.9	60
48	Sculptured thin films as ultranarrow-bandpass circular-polarization filters. Optics Communications, 1999, 168, 457-465.	2.1	59
49	Ambichiral, equichiral and finely chiral layered structures. Optics Communications, 2004, 239, 353-358.	2.1	59
50	Negative refraction, negative phase velocity, and counterposition in bianisotropic materials and metamaterials. Physical Review B, 2009, 79, .	3.2	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.	2.1	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.	2.1	58
53	Transmission ellipsometry of a thin-film helicoidal bianisotropic medium. Applied Physics Letters, 1997, 71, 1180-1182.	3.3	57
54	Chapter 3 Electromagnetic fields in linear bianisotropic mediums. Progress in Optics, 2008, 51, 121-209.	0.6	57

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55	Optical sensing of analytes in aqueous solutions with a multiple surface-plasmon-polariton-wave platform. <i>Scientific Reports</i> , 2013, 3, 1409.	3.3	56
56	Comments on recent criticism of the T-matrix method. <i>Journal of the Acoustical Society of America</i> , 1988, 84, 2280-2284.	1.1	55
57	Macroscopic theory of the coupled dipole approximation method. <i>Optics Communications</i> , 1990, 79, 1-5.	2.1	55
58	Spectral-hole filter fabricated using sculptured thin-film technology. <i>Optics Communications</i> , 2000, 177, 79-84.	2.1	55
59	Background and survey of bioreplication techniques. <i>Bioinspiration and Biomimetics</i> , 2011, 6, 031001.	2.9	53
60	Restricted equivalence of paired epsilon-negative and mu-negative layers to a negative phase-velocity material (alias left-handed material). <i>Optik</i> , 2003, 114, 305-307.	2.9	52
61	Extended Maxwell Garnett model for chiral-in-chiral composites. <i>Journal Physics D: Applied Physics</i> , 1993, 26, 1746-1758.	2.8	51
62	Modeling Chiral Sculptured Thin Films as Platforms for Surface-Plasmonic-Polaritonic Optical Sensing. <i>IEEE Sensors Journal</i> , 2012, 12, 273-280.	4.7	51
63	General theory of the Purcell-Pennypacker scattering approach and its extension to bianisotropic scatterers. <i>Astrophysical Journal</i> , 1992, 394, 494.	4.5	50
64	Observation of the Dyakonov-Tamm Wave. <i>Physical Review Letters</i> , 2013, 111, 243902.	7.8	49
65	Broadband Light Absorption with Multiple Surface Plasmon Polariton Waves Excited at the Interface of a Metallic Grating and Photonic Crystal. <i>ACS Nano</i> , 2013, 7, 4995-5007.	14.6	49
66	Scattering by periodic achiral-chiral interfaces. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1989, 6, 1675.	1.5	48
67	Sculptured thin films. I. Concepts. <i>Materials Research Innovations</i> , 1997, 1, 145-148.	2.3	48
68	On surface plasmon-polariton waves guided by the interface of a metal and a rugate filter with a sinusoidal refractive-index profile. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, 2218.	2.1	48
69	Graphene pixel-based polarization-insensitive metasurface for almost perfect and wideband terahertz absorption. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, F84.	2.1	48
70	Equivalent dipole moments of helical arrangements of small, isotropic, point-polarizable scatters: Application to chiral polymer design. <i>Journal of Applied Physics</i> , 1988, 63, 280-284.	2.5	47
71	Replication of fly eyes by the conformal-evaporated-film-by-rotation technique. <i>Nanotechnology</i> , 2008, 19, 355704.	2.6	47
72	Dilute random distribution of small chiral spheres. <i>Applied Optics</i> , 1990, 29, 3627.	2.1	46

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73	Maxwell's Garnett model for composites of electrically small uniaxial objects. Microwave and Optical Technology Letters, 1993, 6, 681-684.	1.4	46
74	High-speed optical humidity sensors based on chiral sculptured thin films. Sensors and Actuators B: Chemical, 2011, 156, 593-598.	7.8	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.	2.1	44
76	On selective absorption in an axially excited slab of a dielectric thin-film helicoidal bianisotropic medium. Optics Communications, 1998, 145, 171-187.	2.1	44
77	Anomalous axial propagation in helicoidal bianisotropic media. Optics Communications, 1998, 157, 193-201.	2.1	44
78	On calibration of a nominal structure-property relationship model for chiral sculptured thin films by axial transmittance measurements. Optics Communications, 2002, 209, 369-375.	2.1	44
79	Vapor-deposited thin films with negative real refractive index in the visible regime. Optics Express, 2009, 17, 7784.	3.4	43
80	Bruggeman model for chiral particulate composites. Journal Physics D: Applied Physics, 1992, 25, 1390-1394.	2.8	42
81	Strong-property-fluctuation theory for homogenization of bianisotropic composites: Formulation. Physical Review E, 2000, 62, 6052-6064.	2.1	42
82	An Electromagnetic Trinity from "Negative Permittivity" and "Negative Permeability". 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.	2.9	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 "Resonant and antiresonant frequency dependence of the effective parameters of metamaterials". Physical Review E, 2004, 70, 048601; author reply 048603.	2.1	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.	3.4	42
87	Magnetic and magnetothermal tunabilities of subwavelength-hole arrays in a semiconductor sheet. Optics Letters, 2009, 34, 1465.	3.3	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.	2.1	41
90	Human fibroblast attachment on fibrous parylene-C thin-film substrates. Materials Science and Engineering C, 2010, 30, 1252-1259.	7.3	41

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91	Grating-coupled excitation of multiple surface plasmon-polariton waves. <i>Physical Review A</i> , 2011, 84, .	2.5	41
92	Lorentz covariance, Occam's razor, and a constraint on linear constitutive relations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 213, 107-111.	2.1	40
93	Bruggeman formalism for two models of uniaxial composite media: Dielectric properties. <i>Composites Science and Technology</i> , 1997, 57, 185-196.	7.8	40
94	Second harmonic emission from an axially excited slab of a dielectric thin-film helicoidal bianisotropic medium. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 1998, 454, 1535-1571.	2.1	40
95	Spectral holes in Bragg reflection from chiral sculptured thin films: circular polarization filters. <i>Optics Communications</i> , 2000, 177, 57-68.	2.1	40
96	Brief Overview of Recent Developments on Negative Phase Velocity Mediums (alias Left-Handed) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.5	40
97	Specular and nonspecular, thickness-dependent, spectral holes in a slanted chiral sculptured thin film with a central twist defect. <i>Optics Communications</i> , 2003, 215, 79-92.	2.1	40
98	Handedness reversal of circular Bragg phenomenon due to negative real permittivity and permeability. <i>Optics Express</i> , 2003, 11, 716.	3.4	40
99	One-dimensional bigyrotropic magnetic photonic crystals. <i>Applied Physics Letters</i> , 2004, 85, 5932-5934.	3.3	40
100	Lateral shifts of optical beams on reflection by slanted chiral sculptured thin films. <i>Optics Communications</i> , 2004, 235, 107-132.	2.1	40
101	Multiple surface plasmon polariton waves. <i>Electronics Letters</i> , 2009, 45, 1137.	1.0	40
102	Biologically inspired achromatic waveplates for visible light. <i>Nature Communications</i> , 2011, 2, 363.	12.8	40
103	Reflection of plane waves at planar achiral-chiral interfaces: independence of the reflected polarization state from the incident polarization state. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1990, 7, 1654.	1.5	39
104	The role of anisotropy in the Maxwell Garnett and Bruggeman formalisms for uniaxial particulate composite media. <i>Journal Physics D: Applied Physics</i> , 1997, 30, 230-240.	2.8	39
105	On the genesis of Post constraint in modern electromagnetism. <i>Optik</i> , 2004, 115, 151-158.	2.9	39
106	Gravitation and electromagnetic wave propagation with negative phase velocity. <i>New Journal of Physics</i> , 2005, 7, 75-75.	2.9	39
107	Effective medium theory of the microwave and the infrared properties of composites with carbon nanotube inclusions. <i>Carbon</i> , 1998, 36, 1833-1839.	10.3	38
108	Analysis of Acoustic Emission Signals in Machining. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 1999, 121, 568-576.	2.2	38

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109	Surface plasmon resonance from metallic columnar thin films. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2009, 7, 176-185.	2.0	38
110	Would Brewster recognize today's Brewster angle?. <i>Optics News</i> , 1989, 15, 14.	0.1	37
111	Enhancement of optical activity of chiral sculptured thin films by suitable infiltration of void regions. <i>Optik</i> , 2001, 112, 145-148.	2.9	37
112	What happens to plane waves at the planar interfaces of mirror-conjugated chiral media. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1989, 6, 23.	1.5	36
113	Uniformity constraint on recently conceptualised linear uniaxial bianisotropic media. <i>Electronics Letters</i> , 1994, 30, 1656-1657.	1.0	36
114	A State-Space Model of Fatigue Crack Growth. <i>International Journal of Fracture</i> , 1998, 90, 235-249.	2.2	36
115	The correct constitutive relations of chiropasmas and chiroferrites. <i>Microwave and Optical Technology Letters</i> , 1998, 17, 405-408.	1.4	36
116	Supermodes of Chiral Photonic Filters with Combined Twist and Layer Defects. <i>Physical Review Letters</i> , 2003, 91, 223903.	7.8	36
117	Optimization of the absorption efficiency of an amorphous-silicon thin-film tandem solar cell backed by a metallic surface-relief grating. <i>Applied Optics</i> , 2013, 52, 966.	1.8	36
118	Elastic wave propagation in noncentrosymmetric, isotropic media: Dispersion and field equations. <i>Journal of Applied Physics</i> , 1988, 63, 5246-5250.	2.5	35
119	Dielectric thin-film helicoidal bianisotropic medium bilayers as tunable polarization-independent laser mirrors and notch filters. <i>Microwave and Optical Technology Letters</i> , 1998, 17, 135-140.	1.4	35
120	Negative index of refraction and distributed Bragg reflectors. <i>Microwave and Optical Technology Letters</i> , 2002, 34, 409-411.	1.4	35
121	Towards gravitationally assisted negative refraction of light by vacuum. <i>Journal of Physics A</i> , 2004, 37, L505-L510.	1.6	35
122	Electrically controlled optical bandgap in a structurally chiral material. <i>Optics Communications</i> , 2006, 259, 164-173.	2.1	35
123	Mass fabrication technique for polymeric replicas of arrays of insect corneas. <i>Bioinspiration and Biomimetics</i> , 2010, 5, 036001.	2.9	35
124	Polarizability dyadics of small bianisotropic spheres. <i>Journal De Physique</i> , 1990, 51, 2235-2242.	1.8	35
125	Iterative extended boundary condition method for scattering by objects of high aspect ratios. <i>Journal of the Acoustical Society of America</i> , 1984, 76, 906-912.	1.1	34
126	On the constitutive parameters of a chiroferrite composite medium. <i>Microwave and Optical Technology Letters</i> , 1998, 18, 342-345.	1.4	34



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127	On Electromagnetic Waves in Biaxial Bianisotropic Media. Electromagnetics, 1999, 19, 351-362.	0.7	34
128	Rigorous electromagnetic modeling of near-field phase-shifting contact lithography. Microelectronic Engineering, 2004, 71, 34-53.	2.4	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.	4.6	33
130	Simultaneous negative- and positive-phase-velocity propagation in an isotropic chiral medium. Microwave and Optical Technology Letters, 2007, 49, 1245-1246.	1.4	33
131	On the Bergmanâ€Milton bounds for the homogenization of dielectric composite materials. Optics Communications, 2007, 271, 470-474.	2.1	33
132	Surface-plasmon wave at the planar interface of a metal film and a structurally chiral medium. Optics Communications, 2007, 279, 291-297.	2.1	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.	2.1	33
134	On absorption by non-axially excited slabs of dielectric thin-film helicoidal bianisotropic mediums. EPJ Applied Physics, 2000, 10, 173-184.	0.7	33
135	The tellegen medium is âœœa Boojum, you seeâœœ. 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.	2.1	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.	1.5	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.	1.3	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.	7.8	31
142	Experimental realization of sculptured-thin-film polarization-discriminatory light-handedness inverters. Optical Engineering, 2000, 39, 2831.	1.0	31
143	Incremental and differential Maxwell Garnett formalisms for bi-anisotropic composites. Composites Science and Technology, 2001, 61, 13-18.	7.8	31
144	Spatially Organized Free-Standing Poly(p-xylylene) Nanowires Fabricated by Vapor Deposition. Langmuir, 2007, 23, 5861-5863.	3.5	31

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145	Fabrication of free-standing replicas of fragile, laminar, chitinous biotemplates. <i>Bioinspiration and Biomimetics</i> , 2009, 4, 034001.	2.9	31
146	Classical electromagnetic model of surface states in topological insulators. <i>Journal of Nanophotonics</i> , 2016, 10, 033004.	1.0	31
147	Radiation by a point electric dipole embedded in a chiral sphere. <i>Journal Physics D: Applied Physics</i> , 1990, 23, 481-485.	2.8	30
148	Axial propagation in general helicoidal bianisotropic media. <i>Microwave and Optical Technology Letters</i> , 1993, 6, 804-806.	1.4	30
149	Simple model for dielectric thin-film helicoidal bianisotropic media. <i>Optics Communications</i> , 1998, 158, 119-126.	2.1	30
150	Detecting emerald ash borers ( <i>Agrilus planipennis</i> ) using branch traps baited with 3D-printed beetle decoys. <i>Journal of Pest Science</i> , 2015, 88, 267-279.	3.7	30
151	On the Maxwell-Garnett model of chiral composites. <i>Journal of Materials Research</i> , 1993, 8, 917-922.	2.6	29
152	Constraint on linear, homogeneous, constitutive relations. <i>Physical Review E</i> , 1994, 50, 5017-5019.	2.1	29
153	On percolation and circular Bragg phenomenon in metallic, helicoidally periodic, sculptured thin films. <i>Microwave and Optical Technology Letters</i> , 2000, 24, 239-244.	1.4	29
154	Comparison of two methods for oblique propagation in helicoidal bianisotropic mediums. <i>Optics Communications</i> , 2004, 230, 369-386.	2.1	29
155	Uniaxial dielectric media with hyperbolic dispersion relations. <i>Microwave and Optical Technology Letters</i> , 2006, 48, 363-367.	1.4	29
156	Thickness-controlled hydrophobicity of fibrous Parylene-C films. <i>Materials Letters</i> , 2010, 64, 1063-1065.	2.6	29
157	Dyakonov-Tamm waves guided by the interface between two structurally chiral materials that differ only in handedness. <i>Physical Review A</i> , 2010, 81, .	2.5	29
158	Constraint on linear, spatiotemporally nonlocal, spatiotemporally nonhomogeneous constitutive relations. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1996, 17, 1867-1878.	0.6	28
159	Homogenization of linear bianisotropic particulate composite media – Numerical studies. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 1998, 9, 167-178.	0.6	28
160	Development and assessment of coupled wave theory of axial propagation in thin-film helicoidal bianisotropic media. Part 1: Reflectances and transmittances. <i>Journal of Modern Optics</i> , 2000, 47, 973-991.	1.3	28
161	Global and local perspectives of gravitationally assisted negative-phase-velocity propagation of electromagnetic waves in vacuum. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 336, 89-96.	2.1	28
162	Defect modes in multisection helical photonic crystals. <i>Optics Express</i> , 2005, 13, 7319.	3.4	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.	4.6	28
164	Towards a realization of Schwarzschild-(anti-)de Sitter spacetime as a particulate metamaterial. Physical Review B, 2011, 83, .	3.2	28
165	Progress on bioinspired, biomimetic, and bioreplication routes to harvest solar energy. Applied Physics Reviews, 2017, 4, .	11.3	28
166	Thermally sensitive scattering of terahertz waves by coated cylinders for tunable invisibility and masking. Optics Express, 2018, 26, 1.	3.4	28
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