Grigorios P Zouros

List of Publications by Year
in descending order

76 papers	387 citations	840776 11 h-index	940533 16 g-index

| 76 all docs | 76 docs citations | 76 times ranked | 236 citing authors |

#	Article	IF	Citations
1	Electromagnetic Scattering by an Inhomogeneous Gyroelectric Sphere Using Volume Integral Equation and Orthogonal Dini-Type Basis Functions. IEEE Transactions on Antennas and Propagation, 2015, 63, 2665-2676.	5.1	31
2	On Methods Employing Auxiliary Sources for 2-D Electromagnetic Scattering by Noncircular Shapes. IEEE Transactions on Antennas and Propagation, 2018, 66, 5443-5452.	5.1	29
3	Electromagnetic Scattering by a General Rotationally Symmetric Inhomogeneous Anisotropic Sphere. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 3054-3065.	4.6	19
4	Electromagnetic plane wave scattering by arbitrarily oriented elliptical dielectric cylinders. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 2376.	1.5	17
5	Eigenfrequencies and Modal Analysis of Uniaxial, Biaxial, and Gyroelectric Spherical Cavities. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 20-27.	4.6	16
6	Oblique electromagnetic scattering from lossless or lossy composite elliptical dielectric cylinders. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 196.	1.5	14
7	CCOMP: An efficient algorithm for complex roots computation of determinantal equations. Computer Physics Communications, 2018, 222, 339-350.	7.5	14
8	Transverse Electric Scattering on Inhomogeneous Objects: Spectrum of Integral Operator and Preconditioning. SIAM Journal of Scientific Computing, 2012, 34, B226-B246.	2.8	13
9	Electromagnetic Scattering From a Metallic Prolate or Oblate Spheroid Using Asymptotic Expansions on Spheroidal Eigenvectors. IEEE Transactions on Antennas and Propagation, 2014, 62, 839-851.	5.1	13
10	High-efficiency triple-resonant inelastic light scattering in planar optomagnonic cavities. New Journal of Physics, 2019, 21, 095001.	2.9	13
11	Monitoring strong coupling in nonlocal plasmonics with electron spectroscopies. Physical Review B, 2020, 101, .	3.2	12
12	Three-Dimensional Giant Invisibility to Superscattering Enhancement Induced by Zeeman-Split Modes. ACS Photonics, 2021, 8, 1407-1412.	6.6	11
13	Exact and Closed-Form Cutoff Wavenumbers of Elliptical Dielectric Waveguides. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 2741-2751.	4.6	10
14	Study of Convergence, Divergence, and Oscillations in Method-of-Auxiliary-Sources (MAS) and Extended-Integral-Equation (EIE) Solutions to a Simple Cavity Problem. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2773-2782.	4.6	10
15	Magnetic switching of Kerker scattering in spherical microresonators. Nanophotonics, 2020, 9, 4033-4041.	6.0	10
16	Efficient Calculation of the Electromagnetic Scattering by Lossless or Lossy, Prolate or Oblate Dielectric Spheroids. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 864-876.	4.6	9
17	Analysis of Multilayered Gyroelectric Spherical Cavities by Weak Form VIE Formulation. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 4029-4036.	4.6	9
18	EBCM for Electromagnetic Modeling of Gyrotropic BoRs. IEEE Transactions on Antennas and Propagation, 2021, 69, 6134-6139.	5.1	9

#	Article	IF	Citations
19	Scattering by an Infinite Dielectric Cylinder Having an Elliptic Metal Core: Asymptotic Solutions. IEEE Transactions on Antennas and Propagation, 2010, 58, 3299-3309.	5.1	8
20	Efficient and Accurate Calculation of the Cutoff Wavenumbers of Coaxial Elliptical-Circular and Circular-Elliptical Metallic Waveguides. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 2242-2250.	4.6	8
21	CFVIE Formulation for EM Scattering on Inhomogeneous Anisotropicâ€"Metallic Objects. IEEE Transactions on Antennas and Propagation, 2017, 65, 3788-3793.	5.1	8
22	Engineering Subwavelength Nanoantennas in the Visible by Employing Resonant Anisotropic Nanospheroids. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-12.	2.9	8
23	Exact Cutoff Wavenumbers of Composite Elliptical Metallic Waveguides. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 3179-3186.	4.6	7
24	Electromagnetic Scattering on Inhomogeneous Gyroelectric Bodies of Revolution. IEEE Transactions on Antennas and Propagation, 2016, 64, 281-286.	5.1	7
25	Allâ€"Anisotropic Spheroidal Photonic Antennas: Theory and Modeling. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-12.	2.9	7
26	An Entire Domain CFVIE-CDSE Method for EM Scattering on Electrically Large Highly Inhomogeneous Gyrotropic Circular Cylinders. IEEE Transactions on Antennas and Propagation, 2021, 69, 2256-2266.	5.1	7
27	Electromagnetic scattering by an infinite cylinder of material or metamaterial coating eccentrically a dielectric cylinder. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 1076.	1.5	6
28	Complex Resonances of Anisotropic Spherical Resonators. IEEE Transactions on Antennas and Propagation, 2018, 66, 5282-5290.	5.1	6
29	Eigenfrequencies in Gyrotropicâ€"Metallic Cavities. IEEE Microwave and Wireless Components Letters, 2018, 28, 197-199.	3.2	5
30	Exact Eigenfrequencies in Concentric Prolate Spheroidal-Spherical Metallic Cavities. IEEE Microwave and Wireless Components Letters, 2014, 24, 821-823.	3.2	4
31	Fast Solution of the Electromagnetic Scattering by Composite Spheroidalâ€"Spherical and Sphericalâ€"Spheroidal Configurations. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 3042-3053.	4.6	4
32	Electromagnetic Scattering by Inhomogeneous Conductingâ€"Gyroelectric Objects. IEEE Transactions on Antennas and Propagation, 2016, 64, 4804-4814.	5.1	4
33	Cutoff Wavenumbers of Multilayered Gyrotropic Circular Waveguides. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 2949-2959.	4.6	4
34	Full-wave theory for WGM lasing of fully anisotropic nanoparticles. Journal of Applied Physics, 2018, 124, .	2.5	3
35	Modified Prony Method for Integration of Highly Oscillating Functions. , 2018, , .		3
36	Integration of Highly Oscillating Functions Using Prony Interpolation. , 2018, , .		3

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37	Green's function of radial inhomogeneous spheres excited by internal sources. Journal of the Acoustical Society of America, 2011, 129, 24-31.	1.1	2
38	Closed-form solution for electromagnetic scattering by a dielectric spheroid. , 2014, , .		2
39	Alternative orthogonal vector basis functions for solving volume integral equations in electromagnetic theory. , 2016, , .		2
40	Acoustic scattering from inhomogeneous spheres with impenetrable cores. Journal of Applied Physics, 2016, 119, .	2.5	2
41	Scattering and Radiation by Perturbed Spherical Metallic Bodies of Revolution. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1008-1011.	4.0	2
42	Complex WGM frequencies of gyroelectric cylindrical resonators. IET Microwaves, Antennas and Propagation, 2021, 15, 1206-1217.	1.4	2
43	Active THz metasurfaces for compact isolation. Journal of the Optical Society of America B: Optical Physics, 2021, 38, C191.	2.1	2
44	End-fire all-anisotropic transition metal dichalcogenide nanoantennas. Physical Review B, 2021, 104, .	3.2	2
45	Closed-form solution to the scattering by an infinite lossless or lossy elliptic cylinder coating a circular metallic core. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 1832.	1.5	1
46	Scattering by an inhomogeneous gyroelectric shell coating a PEC spherical core. , 2016, , .		1
47	Efficient complex roots computation for microwave applications. , 2017, , .		1
48	Complex resonances of composite PEC-gyroelectric resonators using SVIE method. , 2017, , .		1
49	Volume Integral Equation Formulation for Electromagnetic Scattering by Highly Inhomogeneous Anisotropic Cylinders. , 2020, , .		1
50	Spherical Optomagnonic Resonators. , 2021, , 243-297.		1
51	Analytical calculation of cutoff wavenumbers of dielectric waveguides with elliptical cross section. , 2012, , .		1
52	Calculation of the Cutoff Wavenumbers of Circular Metallic-Anisotropic Waveguides. , 2020, , .		1
53	Integral Representations for Modeling Core-shell Particle-based Photonics Applications. , 2021, , .		1
54	EM Scattering by Core-Shell Gyroelectric-Isotropic and Isotropic-Gyroelectric BoRs Using the EBCM. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2022, 7, 117-125.	2.2	1

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55	Schwinger-Lippman volume integral equation method for green's function evaluation in an inhomogeneous sphere by an inner source using dini's series expansion. , 2010, , .		0
56	Scattering by an infinite elliptic dielectric cylinder under oblique illumination. , 2011, , .		0
57	Preconditioning of the Singular Domain Integral Equation Method for Transverse Electric Scattering on High-Contrast Inhomogeneous Cylinders. , 2011, , .		0
58	Exact solution to the scattering by infinitely long composite elliptical dielectric cylinders under oblique illumination. , 2012, , .		0
59	An analytical closed-form solution for electromagnetic scattering from a metallic spheroid in terms of spheroidal eigenvectors. , 2013, , .		0
60	Closed-form solution for electromagnetic scattering by a dielectric spheroid coating a metallic sphere. , 2014, , .		0
61	Analytical calculation for cutoff wavenumbers of metallic waveguides with elliptical-circular and circular-elliptical cross section. , 2014, , .		0
62	Study of radiation characteristics of prolate or oblate spheroidal antennas using shape perturbation method. , 2015, , .		0
63	Asymptotic technique for electromagnetic scattering by perfectly conducting bodies of revolution. , 2015, , .		0
64	Corrections to "EM Field Induced in Inhomogeneous Dielectric Spheres by External Sources"[Nov 07 3178-3190]. IEEE Transactions on Antennas and Propagation, 2015, 63, 875-876.	5.1	0
65	Electromagnetic scattering by a conducting sphere with anisotropic coating. , 2016, , .		0
66	Latest advances in computational electromagnetic solvers for highly inhomogeneous anisotropic objects. , 2016, , .		0
67	On methods employing auxiliary sources for non-circular scattering problems. , 2017, , .		0
68	Resonances of uniaxially anisotropic photonic nanoresonators. , 2017, , .		0
69	Asymptotic Solution to the Scattering By Anisotropic Spheroids. , 2018, , .		0
70	Modal Analysis of Optomagnonic Resonators (Invited paper). , 2018, , .		0
71	A Technique for Nanoscale Modeling of Uniaxial Spheroids. , 2019, , .		0
72	Scattering by a Magnetized Cold Plasma Body. , 2019, , .		0

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73	Electromagnetic Scattering by Magnetic Biaxial Cylinders. , 2021, , .		0
74	Dyadic Green's Function Studies for the Three-shell Head Model. , 2020, , .		0
75	Eigenfrequency Spectrum of Prolate Spheroidal Magneto-optic Cavities. , 2020, , .		0
76	Garnet Wires as Optomagnonic Cavities. , 2021, , .		0