

# Yuri A Eremin

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

744  
citations

623734

14  
h-index

552781

26  
g-index

62  
all docs

62  
docs citations

62  
times ranked

554  
citing authors

#	ARTICLE	IF	CITATIONS
1	New scheme of the discrete sources method for two-dimensional scattering problems by penetrable obstacles. <i>Journal of Computational and Applied Mathematics</i> , 2023, 417, 114556.	2.0	4
2	Discrete sources method for investigation of near field enhancement of core-shell nanoparticles on a substrate accounting for spatial dispersion. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 259, 107405.	2.3	4
3	Discrete Sources Method for Modeling of the Influence of the Non-local Effect on the Absorption of Bimetallic Core-Shell Non-spherical Plasmonic Nanoparticles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, , 107994.	2.3	1
4	Influence of Spatial Dispersion on the Electromagnetic Properties of Magnetoplasmonic Nanostructures. <i>Nanomaterials</i> , 2021, 11, 3297.	4.1	2
5	Generalization of the Optical Theorem to an Arbitrary Multipole Excitation of a Particle near a Transparent Substrate. <i>Mathematics</i> , 2021, 9, 3244.	2.2	4
6	Transition matrix of a nonspherical particle in the non-local optical response theory. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 242, 106756.	2.3	6
7	Transition matrix of a nonspherical layered particle in the non-local optical response theory. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 254, 107196.	2.3	1
8	Numerical method for analyzing the near-field enhancement of nonspherical dielectric-core metallic-shell particles accounting for the nonlocal dispersion. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, 1135.	1.5	8
9	Extension of the discrete sources method to investigate the non-local effect influence on non-spherical core-shell particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 235, 300-308.	2.3	8
10	The numerical scheme of the discrete sources method to analyze 3D plasmonic nanostructures accounting for the non-local effect. <i>Journal of Computational Physics</i> , 2019, 388, 357-370.	3.8	3
11	Analysis of the scattering properties of 3D non-spherical plasmonic nanoparticles accounting for non-local effects. <i>Journal of Modern Optics</i> , 2018, 65, 1778-1786.	1.3	11
12	Methods for Electromagnetic Scattering by Large Axisymmetric Particles with Extreme Geometries. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2018, , 49-69.	0.2	1
13	Discrete sources method for modeling the nonlocal optical response of a nonspherical particle dimer. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 217, 35-44.	2.3	19
14	Fictitious Particle Approach for Light Scattering Investigation from the Line Features of a Substrate Based on the Discrete Sources Method. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2018, , 71-91.	0.2	0
15	Extending the applicability of the T-matrix method to light scattering by flat particles on a substrate via truncation of sommerfeld integrals. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 202, 279-285.	2.3	23
16	Generalization of the Optical Theorem to the multipole source excitation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 185, 22-26.	2.3	5
17	Discrete Sources Method for light scattering analysis of non-axisymmetric features of a substrate. <i>Computer Physics Communications</i> , 2016, 198, 12-21.	7.5	4
18	The optical theorem for local source excitation of a particle near a plane interface. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 166, 1-5.	2.3	1

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19	Methods with discrete sources for electromagnetic scattering by large axisymmetric particles with extreme geometries. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 164, 137-146.	2.3	3
20	Optical signature of erythrocytes by light scattering in microfluidic flows. <i>Lab on A Chip</i> , 2015, 15, 3278-3285.	6.0	43
21	Analysis of scattered field enhancement in the evanescent wave area based on the Discrete Sources Method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 146, 235-243.	2.3	2
22	New scheme of the Discrete Sources Method for light scattering analysis of a particle breaking interface. <i>Computer Physics Communications</i> , 2014, 185, 3141-3150.	7.5	4
23	Investigation of the Plasmonic Resonance of Two Coupled Spheroids by the Discrete Sources Method. <i>Journal of Computational and Theoretical Nanoscience</i> , 2012, 9, 469-478.	0.4	2
24	Analysis of the extreme scattering effect for particles inside and above a noble metal film via the discrete sources method. <i>Journal of Optics (United Kingdom)</i> , 2012, 14, 015001.	2.2	7
25	New scheme of the Discrete Sources Method for investigation of a near field enhancement by coupled particles. <i>Computer Physics Communications</i> , 2012, 183, 1753-1759.	7.5	2
26	Computational nano-optic technology based on discrete sources method. <i>Journal of Modern Optics</i> , 2011, 58, 384-399.	1.3	19
27	Extreme Scattering Effect: Light scattering analysis via the Discrete Sources Method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 1687-1696.	2.3	5
28	Modelling of different TIRM setups by the Discrete Sources Method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 1825-1832.	2.3	5
29	Preconditioning techniques for iterative solvers in the Discrete Sources Method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 1705-1710.	2.3	3
30	Implementation and investigation of iterative solvers in the Discrete Sources Method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 1697-1704.	2.3	4
31	Total internal reflection microscopy: examination of competitive schemes via discrete sources method. <i>Journal of Optics (United Kingdom)</i> , 2010, 12, 095703.	2.2	1
32	Spectral scattering properties of a nanohole in a noble-metal film in the evanescent waves area. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 1518-1525.	2.3	4
33	Analysis of Extreme Light Transmission Through a Nanohole in a Metal Film Based on Discrete Sources Method. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009, 6, 795-803.	0.4	5
34	Analysis of light scattering in the evanescent waves area by a cylindrical nanohole in a noble-metal film. <i>Optics Communications</i> , 2008, 281, 3581-3586.	2.1	12
35	Light scattering simulation for the characterization of sintered silver nanoparticles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 1363-1373.	2.3	11
36	Experimental Verification of an Exact Evanescent Light Scattering Model for TIRM. <i>Langmuir</i> , 2008, 24, 1-4.	3.5	63

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37	Analysis of the scattering properties of a core-shell nanoparticle deposited on a plane surface via rigorous computer model. <i>Journal of Modern Optics</i> , 2008, 55, 297-310.	1.3	1
38	Modeling of Light Scattering Properties of a Nanoshell on a Plane Interface: Influence of a Core Material and Polarization. <i>Journal of Computational and Theoretical Nanoscience</i> , 2008, 5, 2186-2193.	0.4	1
39	Analysis of the light scattering properties of a gold nanorod on a plane surface via discrete sources method. <i>Optics Communications</i> , 2007, 273, 278-285.	2.1	16
40	Comparison of T-matrix method with discrete sources method applied for total internal reflection microscopy. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007, 106, 464-474.	2.3	13
41	Single-particle evanescent light scattering simulations for total internal reflection microscopy. <i>Applied Optics</i> , 2006, 45, 7299.	2.1	52
42	Light scattering by needle-type and disk-type particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 100, 165-172.	2.3	5
43	Discrete Sources Method for analysis of a light scattering by an air bubble on resist for immersion lithography. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 100, 131-136.	2.3	4
44	Different shape models for erythrocyte: Light scattering analysis based on the discrete sources method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 102, 3-10.	2.3	15
45	Simulations of light scattering spectra of a nanoshell on plane interface based on the discrete sources method. <i>Optics Communications</i> , 2006, 267, 524-529.	2.1	14
46	Modeling of nanoshells spectra in evanescent wave field via discrete sources method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 100, 122-130.	2.3	5
47	Total internal reflection microscopy with a multilayered interface: a light scattering model based on a discrete sources method. <i>Journal of Optics</i> , 2006, 8, 999-1006.	1.5	15
48	Analysis of light scattering by erythrocyte based on discrete sources method. <i>Optics Communications</i> , 2005, 244, 15-23.	2.1	33
49	Discrete sources method for simulation of resonance spectra of nonspherical nanoparticles on a plane surface. <i>Optics Communications</i> , 2005, 246, 405-413.	2.1	13
50	Discrete source method for spectroscopic analysis of nano-particles on a plane interface. <i>Journal of Optics</i> , 2005, 7, 706-710.	1.5	0
51	Extension of the discrete sources method to light scattering by highly elongated finite cylinders. <i>Journal of Modern Optics</i> , 2004, 51, 423-435.	1.3	10
52	Discrete sources method model for evanescent waves scattering analysis. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004, 89, 53-65.	2.3	9
53	Wave scattering analysis based on discrete sources method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004, 89, 349-363.	2.3	2
54	Extension of the discrete sources method to light scattering by highly elongated finite cylinders. <i>Journal of Modern Optics</i> , 2004, 51, 423-435.	1.3	0

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55	Analysis of evanescent waves conversion by a non-spherical particle near a metal-coated glass prism via discrete sources method. Optics Communications, 2003, 223, 221-232.	2.1	1
56	Large dielectric non-spherical particle in an evanescent wave field near a plane surface. Optics Communications, 2002, 214, 39-45.	2.1	16
57	<title>Effects of particle shape on particle identification and scatter predictions</title>. , 2001, , .		0
58	Scattering of evanescent waves by a sensor tip near a plane surface. Optics Communications, 2001, 190, 5-12.	2.1	11
59	<title>Use of light scatter signals to identify particle material</title>. , 2001, , .		2
60	Modeling scatter from silicon wafer features based on discrete sources method. Optical Engineering, 1999, 38, 1296.	1.0	27