

A Femius Koenderink

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

145
papers

6,100
citations

44
h-index

74
g-index

157
ext. papers

7,012
ext. citations

6.7
avg, IF

6.53
L-index

#	Paper	IF	Citations
145	Over 65% Sunlight Absorption in a 1 μ m Si Slab with Hyperuniform Texture.. <i>ACS Photonics</i> , 2022 , 9, 1206-1217	6.3	0
144	Super-resolution imaging: when biophysics meets nanophotonics. <i>Nanophotonics</i> , 2022 , 11, 169-202	6.3	1
143	Integrated Molecular Optomechanics with Hybrid Dielectric-Metallic Resonators.. <i>ACS Photonics</i> , 2021 , 8, 3506-3516	6.3	1
142	Photon Recycling in CsPbBr All-Inorganic Perovskite Nanocrystals. <i>ACS Photonics</i> , 2021 , 8, 3201-3208	6.3	2
141	Energy-resolved plasmonic chemistry in individual nanoreactors. <i>Nature Nanotechnology</i> , 2021 ,	28.7	10
140	Double moiré-localized plasmon structured illumination microscopy. <i>Nanophotonics</i> , 2021 , 10, 1107-1121	6.3	0
139	Localizing nanoscale objects using nanophotonic near-field transducers. <i>Nanophotonics</i> , 2021 , 10, 1723-1732	6.3	2
138	Intermittency of CsPbBr Perovskite Quantum Dots Analyzed by an Unbiased Statistical Analysis. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 12061-12072	3.8	2
137	A Python Toolbox for Unbiased Statistical Analysis of Fluorescence Intermittency of Multilevel Emitters. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 12050-12060	3.8	2
136	Programming Metasurface Near-Fields for Nano-Optical Sensing. <i>Advanced Optical Materials</i> , 2021 , 9, 2100435	8.1	2
135	Spatial coherence control and analysis via micromirror-based mixed-state ptychography. <i>New Journal of Physics</i> , 2021 , 23, 053016	2.9	2
134	Pseudochirality at exceptional rings of optical metasurfaces. <i>Physical Review Research</i> , 2021 , 3,	3.9	3
133	Band-Gap Tunability in Partially Amorphous Silicon Nanoparticles Using Single-Dot Correlative Microscopy. <i>ACS Applied Nano Materials</i> , 2021 , 4, 288-296	5.6	3
132	Calibration-based overlay sensing with minimal-footprint targets. <i>Applied Physics Letters</i> , 2021 , 119, 111104	3.4	0
131	Super-Resolution without Imaging: Library-Based Approaches Using Near-to-Far-Field Transduction by a Nanophotonic Structure. <i>ACS Photonics</i> , 2020 , 7, 3246-3256	6.3	5
130	Nanophotonic compressed sensing with small dipole arrays 2020 ,		1
129	A simple transfer-matrix model for metasurface multilayer systems. <i>Nanophotonics</i> , 2020 , 9, 3985-4007	6.3	8

128	Gain-induced scattering anomalies of diffractive metasurfaces. <i>Nanophotonics</i> , 2020 , 9, 4273-4285	6.3	3
127	Phase-retrieval Fourier microscopy of partially temporally coherent nanoantenna radiation patterns. <i>Optics Express</i> , 2020 , 28, 37844-37859	3.3	
126	Directed Emission from Self-Assembled Microhelices. <i>Advanced Functional Materials</i> , 2020 , 30, 1908218	15.6	3
125	Lattice Resonances in Optical Metasurfaces With Gain and Loss. <i>Proceedings of the IEEE</i> , 2020 , 108, 795-818	14.3	17
124	Generation of Pure OAM Beams with a Single State of Polarization by Antenna-Decorated Microdisk Resonators. <i>ACS Photonics</i> , 2020 , 7, 3049-3060	6.3	10
123	Controlling Optically Driven Atomic Migration Using Crystal-Facet Control in Plasmonic Nanocavities. <i>ACS Nano</i> , 2020 , 14, 10562-10568	16.7	18
122	Observation of Cooperative Purcell Enhancements in Antenna-Cavity Hybrids. <i>ACS Nano</i> , 2020 , 14, 12027-12036	16.7	15
121	Uncertainty Estimation and Design Optimization of 2D Diffraction-Based Overlay Metrology Targets. <i>ACS Photonics</i> , 2020 , 7, 2765-2777	6.3	2
120	Simultaneous Photonic and Excitonic Coupling in Spherical Quantum Dot Supercrystals. <i>ACS Nano</i> , 2020 , 14, 13806-13815	16.7	13
119	Strong Coupling to Generate Complex Birefringence: Metasurface in the Middle Etalons. <i>ACS Photonics</i> , 2020 , 7, 2799-2806	6.3	4
118	Plasmon Nanocavity Array Lasers: Cooperating over Losses and Competing for Gain. <i>ACS Nano</i> , 2019 , 13, 7377-7382	16.7	8
117	Hybrid cavity-antenna systems for quantum optics outside the cryostat?. <i>Nanophotonics</i> , 2019 , 8, 1513-1531	16.3	23
116	Spatial Intensity Distribution in Plasmonic Particle Array Lasers. <i>Physical Review Applied</i> , 2019 , 11,	4.3	6
115	Light-emitting metasurfaces. <i>Nanophotonics</i> , 2019 , 8, 1151-1198	6.3	78
114	Perfect Absorption and Phase Singularities in Plasmon Antenna Array Etalons. <i>ACS Photonics</i> , 2019 , 6, 2917-2925	6.3	28
113	High-Index Dielectric Metasurfaces Performing Mathematical Operations. <i>Nano Letters</i> , 2019 , 19, 8418-8423	14.3	71
112	Mapping complex mode volumes with cavity perturbation theory. <i>Optica</i> , 2019 , 6, 269	8.6	28
111	Plasmon antenna array patchwork lasers towards low etendue, speckle free light sources. <i>OSA Continuum</i> , 2019 , 2, 1982	1.4	1

110	Cooperative interactions between nano-antennas in a high-Q cavity for unidirectional light sources. <i>Light: Science and Applications</i> , 2019 , 8, 115	16.7	19
109	High Internal Emission Efficiency of Silicon Nanoparticles Emitting in the Visible Range. <i>ACS Photonics</i> , 2018 , 5, 2129-2136	6.3	12
108	Trapping Light in Plain Sight: Embedded Photonic Eigenstates in Zero-Index Metamaterials. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1700220	8.3	46
107	Experimental observation of a polarization vortex at an optical bound state in the continuum. <i>Nature Photonics</i> , 2018 , 12, 397-401	33.9	171
106	Broadband highly directive 3D nanophotonic lenses. <i>Nature Communications</i> , 2018 , 9, 4742	17.4	18
105	Quantifying single plasmonic nanostructure far-fields with interferometric and polarimetric k-space microscopy. <i>Light: Science and Applications</i> , 2018 , 7, 65	16.7	14
104	Controlling Nanoantenna Polarizability through Backaction via a Single Cavity Mode. <i>Physical Review Letters</i> , 2018 , 120, 206101	7.4	11
103	Single-Photon Nanoantennas. <i>ACS Photonics</i> , 2017 , 4, 710-722	6.3	165
102	Broadband light scattering and photoluminescence enhancement from plasmonic Vogel's golden spirals. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1600235	8.3	13
101	Plasmon Particle Array Lasers. <i>Springer Series in Solid-state Sciences</i> , 2017 , 165-190	0.4	
100	Systematic study of the hybrid plasmonic-photonic band structure underlying lasing action of diffractive plasmon particle lattices. <i>Physical Review B</i> , 2017 , 95,	3.3	20
99	Nano-antenna enhanced two-focus fluorescence correlation spectroscopy. <i>Scientific Reports</i> , 2017 , 7, 5985	4.9	5
98	Controlling crystallization to imprint nanophotonic structures into halide perovskites using soft lithography. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8301-8307	7.1	37
97	Dendritic optical antennas: scattering properties and fluorescence enhancement. <i>Scientific Reports</i> , 2017 , 7, 6223	4.9	3
96	General point dipole theory for periodic metasurfaces: magnetoelectric scattering lattices coupled to planar photonic structures. <i>Optics Express</i> , 2017 , 25, 21358-21378	3.3	25
95	Antenna-Cavity Hybrids: Matching Polar Opposites for Purcell Enhancements at Any Linewidth. <i>ACS Photonics</i> , 2016 , 3, 1943-1951	6.3	72
94	Backaction in metasurface etalons. <i>Physical Review B</i> , 2016 , 93,	3.3	10
93	Drexhage's Experiment for Sound. <i>Physical Review Letters</i> , 2016 , 116, 224301	7.4	10

92	The local density of optical states of a metasurface. <i>Scientific Reports</i> , 2016 , 6, 20655	4.9	16
91	Exact Analysis of Nanoantenna Enhanced Fluorescence Correlation Spectroscopy at a Mie Sphere. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13684-13692	3.8	1
90	Lasing in quasi-periodic and aperiodic plasmon lattices. <i>Optica</i> , 2016 , 3, 686	8.6	37
89	Directional sideward emission from luminescent plasmonic nanostructures. <i>Optics Express</i> , 2016 , 24, A388-96	3.3	8
88	Angle-Resolved Cathodoluminescence Imaging Polarimetry. <i>ACS Photonics</i> , 2016 , 3, 147-154	6.3	55
87	Spin-Dependent Emission from Arrays of Planar Chiral Nanoantennas Due to Lattice and Localized Plasmon Resonances. <i>ACS Nano</i> , 2016 , 10, 3389-97	16.7	57
86	Superresolution imaging of the local density of states in plasmon lattices. <i>Optica</i> , 2016 , 3, 289	8.6	27
85	Non-blinking single-photon emitters in silica. <i>Scientific Reports</i> , 2016 , 6, 21187	4.9	22
84	K-space polarimetry of bullseye plasmon antennas. <i>Scientific Reports</i> , 2015 , 5, 9966	4.9	34
83	Nanophotonics: shrinking light-based technology. <i>Science</i> , 2015 , 348, 516-21	33.3	356
82	Dynamics of Intraband and Interband Auger Processes in Colloidal Core-Shell Quantum Dots. <i>ACS Nano</i> , 2015 , 9, 10366-76	16.7	39
81	Delayed Exciton Emission and Its Relation to Blinking in CdSe Quantum Dots. <i>Nano Letters</i> , 2015 , 15, 7718-25	11.5	113
80	Statistics of Randomized Plasmonic Lattice Lasers. <i>ACS Photonics</i> , 2015 , 2, 1289-1297	6.3	44
79	Perturbing Open Cavities: Anomalous Resonance Frequency Shifts in a Hybrid Cavity-Nanoantenna System. <i>Physical Review Letters</i> , 2015 , 115, 203904	7.4	22
78	Angle-Resolved Polarimetry of Antenna-Mediated Fluorescence. <i>Physical Review Applied</i> , 2015 , 4,	4.3	14
77	Plasmonic phase-gradient metasurface for spontaneous emission control. <i>Physical Review B</i> , 2015 , 92,	3.3	21
76	Robustness of plasmon phased array nanoantennas to disorder. <i>Scientific Reports</i> , 2015 , 5, 10911	4.9	4
75	Directional emission from a single plasmonic scatterer. <i>Nature Communications</i> , 2014 , 5, 3250	17.4	136

74	Lasing at the band edges of plasmonic lattices. <i>Physical Review B</i> , 2014 , 90,	3.3	113
73	Diffraction stacks of metamaterial lattices with a complex unit cell: Self-consistent long-range bianisotropic interactions in experiment and theory. <i>Physical Review B</i> , 2014 , 89,	3.3	21
72	Underpinning Hybridization Intuition for Complex Nanoantennas by Magnetolectric Quadrupolar Polarizability Retrieval. <i>ACS Photonics</i> , 2014 , 1, 444-453	6.3	33
71	From weak to strong coupling of localized surface plasmons to guided modes in a luminescent slab. <i>Physical Review B</i> , 2014 , 90,	3.3	23
70	Simple model for plasmon enhanced fluorescence correlation spectroscopy. <i>Optics Express</i> , 2014 , 22, 15397-409	3.3	15
69	Dispersion of guided modes in two-dimensional split ring lattices. <i>Physical Review B</i> , 2014 , 90,	3.3	17
68	Nanoscale Excitation Mapping of Plasmonic Patch Antennas. <i>ACS Photonics</i> , 2014 , 1, 1134-1143	6.3	21
67	Breaking the symmetry of forward-backward light emission with localized and collective magnetolectric resonances in arrays of pyramid-shaped aluminum nanoparticles. <i>Physical Review Letters</i> , 2014 , 113, 247401	7.4	39
66	Metal Nanoparticles for Microscopy and Spectroscopy 2014 , 53-98		2
65	Calibrating and controlling the quantum efficiency distribution of inhomogeneously broadened quantum rods by using a mirror ball. <i>ACS Nano</i> , 2013 , 7, 5984-92	16.7	25
64	Spontaneous emission control in a tunable hybrid photonic system. <i>Physical Review Letters</i> , 2013 , 110, 217405	7.4	26
63	Optical properties of two-dimensional magnetolectric point scattering lattices. <i>Physical Review B</i> , 2013 , 88,	3.3	37
62	Plasmonic band structure controls single-molecule fluorescence. <i>ACS Nano</i> , 2013 , 7, 8840-8	16.7	55
61	Reduced Auger recombination in single CdSe/CdS nanorods by one-dimensional electron delocalization. <i>Nano Letters</i> , 2013 , 13, 4884-92	11.5	62
60	Angular Redistribution of Near-Infrared Emission from Quantum Dots in Three-Dimensional Photonic Crystals. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 3431-3439	3.8	6
59	Nanoscale lithographic positioning of fluorescing quantum dot nanocrystals on planar samples. <i>Optical Materials</i> , 2013 , 35, 1342-1347	3.3	4
58	Nanomechanical method to gauge emission quantum yield applied to nitrogen-vacancy centers in nanodiamond. <i>Applied Physics Letters</i> , 2013 , 102, 121105	3.4	18
57	Probing the electrodynamic local density of states with magnetolectric point scatterers. <i>Physical Review B</i> , 2013 , 87,	3.3	16

56	Suitability of nanodiamond nitrogen vacancy centers for spontaneous emission control experiments. <i>New Journal of Physics</i> , 2013 , 15, 043017	2.9	67
55	Polarizability tensor retrieval for magnetic and plasmonic antenna design. <i>New Journal of Physics</i> , 2013 , 15, 073023	2.9	43
54	Signature of a Fano resonance in a plasmonic metamolecule's local density of optical states. <i>Physical Review Letters</i> , 2012 , 108, 077404	7.4	88
53	Gray-Tone Lithography Implementation of Drexhage Method for Calibrating Radiative and Nonradiative Decay Constants of Fluorophores. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16666-16673	3.8	18
52	Plasmonic antennas hybridized with dielectric waveguides. <i>ACS Nano</i> , 2012 , 6, 10156-67	16.7	110
51	Optical Antennas. <i>International Journal of Optics</i> , 2012 , 2012, 1-4	0.9	2
50	Ubiquity of optical activity in planar metamaterial scatterers. <i>Physical Review Letters</i> , 2012 , 108, 223903	7.4	70
49	Attosecond streaking in a nano-plasmonic field. <i>New Journal of Physics</i> , 2012 , 14, 093034	2.9	22
48	Enhanced absorption and emission of Y ₃ Al ₅ O ₁₂ :Ce ³⁺ thin layers prepared by epoxide-catalyzed sol-gel method. <i>Optical Materials Express</i> , 2012 , 2, 1111	2.6	29
47	Superemitters in hybrid photonic systems: A simple lumping rule for the local density of optical states and its breakdown at the unitary limit. <i>Physical Review B</i> , 2012 , 86,	3.3	24
46	Directional emission from plasmonic Yagi-Uda antennas probed by angle-resolved cathodoluminescence spectroscopy. <i>Nano Letters</i> , 2011 , 11, 3779-84	11.5	155
45	Wavelength-selective addressing of visible and near-infrared plasmon resonances for SU8 nanolithography. <i>Optics Express</i> , 2011 , 19, 11405-14	3.3	14
44	Fourier microscopy of single plasmonic scatterers. <i>New Journal of Physics</i> , 2011 , 13, 083019	2.9	45
43	Coherent single-photon absorption by single emitters coupled to one-dimensional nanophotonic waveguides. <i>New Journal of Physics</i> , 2011 , 13, 103010	2.9	44
42	Broadband coherent backscattering spectroscopy of the interplay between order and disorder in three-dimensional opal photonic crystals. <i>Physical Review B</i> , 2011 , 83,	3.3	8
41	Magnetolectric point scattering theory for metamaterial scatterers. <i>Physical Review B</i> , 2011 , 83,	3.3	97
40	Scanning emitter lifetime imaging microscopy for spontaneous emission control. <i>Physical Review Letters</i> , 2011 , 107, 123602	7.4	89
39	Dynamically reconfigurable directionality of plasmon-based single photon sources. <i>Physical Review B</i> , 2010 , 82,	3.3	14

38	On the use of Purcell factors for plasmon antennas. <i>Optics Letters</i> , 2010 , 35, 4208-10	3	255
37	Orientation-dependent spontaneous emission rates of a two-level quantum emitter in any nanophotonic environment. <i>Physical Review A</i> , 2009 , 80,	2.6	45
36	Plasmon nanoparticle array waveguides for single photon and single plasmon sources. <i>Nano Letters</i> , 2009 , 9, 4228-33	11.5	136
35	Polarization, microscopic origin, and mode structure of luminescence and lasing from single ZnO nanowires. <i>Nano Letters</i> , 2009 , 9, 3515-20	11.5	60
34	Accurate calculation of the local density of optical states in inverse-opal photonic crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009 , 26, 987	1.7	30
33	Electric and magnetic dipole coupling in near-infrared split-ring metamaterial arrays. <i>Physical Review Letters</i> , 2009 , 103, 213902	7.4	185
32	Local density of states, spectrum, and far-field interference of surface plasmon polaritons probed by cathodoluminescence. <i>Physical Review B</i> , 2009 , 79,	3.3	118
31	Fractional decay of quantum dots in real photonic crystals. <i>Optics Letters</i> , 2008 , 33, 1557-9	3	9
30	Spatially resolved observation of dipole-dipole interaction between Rydberg atoms. <i>Physical Review Letters</i> , 2008 , 100, 243201	7.4	120
29	Strongly nonexponential time-resolved fluorescence of quantum-dot ensembles in three-dimensional photonic crystals. <i>Physical Review B</i> , 2007 , 75,	3.3	79
28	Programmable nanolithography with plasmon nanoparticle arrays. <i>Nano Letters</i> , 2007 , 7, 745-9	11.5	39
27	Tunable Nanoscale Localization of Energy on Plasmon Particle Arrays. <i>Nano Letters</i> , 2007 , 7, 2004-2008	11.5	103
26	Nano-Optomechanical Characterization and Manipulation of Photonic Crystals. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007 , 13, 253-261	3.8	13
25	Near-field imaging and frequency tuning of a high-Q photonic crystal membrane microcavity. <i>Optics Express</i> , 2007 , 15, 17214-20	3.3	32
24	Plasmon-enhanced luminescence near noble-metal nanospheres: Comparison of exact theory and an improved Gersten and Nitzan model. <i>Physical Review B</i> , 2007 , 76,	3.3	273
23	Experimental evidence for large dynamic effects on the plasmon dispersion of subwavelength metal nanoparticle waveguides. <i>Physical Review B</i> , 2007 , 76,	3.3	55
22	Complex response and polariton-like dispersion splitting in periodic metal nanoparticle chains. <i>Physical Review B</i> , 2006 , 74,	3.3	167
21	Spontaneous emission rates of dipoles in photonic crystal membranes. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006 , 23, 1196	1.7	50

20	Simultaneous position and state measurement of Rydberg atoms. <i>European Physical Journal D</i> , 2006 , 40, 13-17	1.3	7
19	Optical extinction due to intrinsic structural variations of photonic crystals. <i>Physical Review B</i> , 2005 , 72,	3.3	115
18	Optical properties of real photonic crystals: anomalous diffuse transmission. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005 , 22, 1075	1.7	46
17	Controlling the resonance of a photonic crystal microcavity by a near-field probe. <i>Physical Review Letters</i> , 2005 , 95, 153904	7.4	103
16	Spontaneous emission in the near field of two-dimensional photonic crystals. <i>Optics Letters</i> , 2005 , 30, 3210-2	3	33
15	Near-field optics and control of photonic crystals. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2005 , 3, 63-74	2.6	15
14	A standing-wave meter to measure dispersion and loss of photonic-crystal waveguides. <i>Applied Physics Letters</i> , 2005 , 87, 261110	3.4	7
13	An experimental study of strongly modified emission in inverse opal photonic crystals. <i>Physica Status Solidi A</i> , 2003 , 197, 648-661		29
12	Light exiting from real photonic band gap crystals is diffuse and strongly directional. <i>Physical Review Letters</i> , 2003 , 91, 213902	7.4	83
11	Quasi-periodically forced nonlinear Helmholtz oscillators. <i>Physica D: Nonlinear Phenomena</i> , 2002 , 164, 1-27	3.3	9
10	Broadband fivefold reduction of vacuum fluctuations probed by dyes in photonic crystals. <i>Physical Review Letters</i> , 2002 , 88, 143903	7.4	99
9	Ultrafast switching of photonic density of states in photonic crystals. <i>Physical Review B</i> , 2002 , 66,	3.3	81
8	Emission Spectra and Lifetimes of R6G Dye on Silica-Coated Titania Powder. <i>Langmuir</i> , 2002 , 18, 2444-2447	4	35
7	Transmission of coherent phonons through a metallic multilayer. <i>Physical Review B</i> , 2001 , 64,	3.3	6
6	Experimental Probes of the Optical Properties of Photonic Crystals 2001 , 191-218		4
5	Enhanced backscattering from photonic crystals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000 , 268, 104-111	2.3	63
4	Modified spontaneous emission spectra of laser dye in inverse opal photonic crystals. <i>Physical Review A</i> , 2000 , 63,	2.6	80
3	Diffraction of coherent phonons emitted by a grating. <i>Physical Review B</i> , 1999 , 60, 14719-14723	3.3	6

2 Over 65% sunlight absorption in a 1 μm Si slab with hyperuniform texture 2

1 Hybrid Photonic-Plasmonic Cavities based on the Nanoparticle-on-a-Mirror Configuration. *Photonics Research*, 6 5