

# Otto L Muskens

## List of Publications by Year in descending order

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174  
papers

6,786  
citations

61945

43  
h-index

62565

80  
g-index

175  
all docs

175  
docs citations

175  
times ranked

8805  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of Light Scattering in Nanowire Materials for Photovoltaic Applications. Nano Letters, 2008, 8, 2638-2642.	4.5	506
2	Strong Enhancement of the Radiative Decay Rate of Emitters by Single Plasmonic Nanoantennas. Nano Letters, 2007, 7, 2871-2875.	4.5	481
3	A New Family of Ultralow Loss Reversible Phase-Change Materials for Photonic Integrated Circuits: $\text{Sb}_2\text{S}_3$ and $\text{Sb}_2\text{Se}_3$ . Advanced Functional Materials, 2020, 30, 2002447.	7.8	285
4	All-Optical Control of a Single Plasmonic Nanoantenna-ITO Hybrid. Nano Letters, 2011, 11, 2457-2463.	4.5	259
5	Broadband and Omnidirectional Antireflection Coatings Based on Semiconductor Nanorods. Advanced Materials, 2009, 21, 973-978.	11.1	243
6	Deep learning in nano-photonics: inverse design and beyond. Photonics Research, 2021, 9, B182.	3.4	222
7	Surface-Enhanced Infrared Spectroscopy Using Metal Oxide Plasmonic Antenna Arrays. Nano Letters, 2014, 14, 346-352.	4.5	175
8	Highly Sensitive DNA Sensor Based on Upconversion Nanoparticles and Graphene Oxide. ACS Applied Materials & Interfaces, 2015, 7, 12422-12429.	4.0	168
9	Femtosecond Response of a Single Metal Nanoparticle. Nano Letters, 2006, 6, 552-556.	4.5	165
10	$\text{VO}_2$ Thermochromic Metamaterial-Based Smart Optical Solar Reflector. ACS Photonics, 2018, 5, 2280-2286.	3.2	161
11	Photoconductively Loaded Plasmonic Nanoantenna as Building Block for Ultracompact Optical Switches. Nano Letters, 2010, 10, 1741-1746.	4.5	155
12	Quantitative Absorption Spectroscopy of a Single Gold Nanorod. Journal of Physical Chemistry C, 2008, 112, 8917-8921.	1.5	149
13	Large Photonic Strength of Highly Tunable Resonant Nanowire Materials. Nano Letters, 2009, 9, 930-934.	4.5	149
14	Deep Learning Meets Nanophotonics: A Generalized Accurate Predictor for Near Fields and Far Fields of Arbitrary 3D Nanostructures. Nano Letters, 2020, 20, 329-338.	4.5	149
15	Optical scattering resonances of single and coupled dimer plasmonic nanoantennas. Optics Express, 2007, 15, 17736.	1.7	146
16	Nonvolatile programmable silicon photonics using an ultralow-loss $\text{Sb}_2\text{Se}_3$ phase change material. Science Advances, 2021, 7, .	4.7	127
17	Interactions of Human Endothelial Cells with Gold Nanoparticles of Different Morphologies. Small, 2012, 8, 122-130.	5.2	116
18	Interactions of Skin with Gold Nanoparticles of Different Surface Charge, Shape, and Functionality. Small, 2015, 11, 713-721.	5.2	115

#	ARTICLE	IF	CITATIONS
19	Metasurface Optical Solar Reflectors Using AZO Transparent Conducting Oxides for Radiative Cooling of Spacecraft. ACS Photonics, 2018, 5, 495-501.	3.2	114
20	Graphene Oxide-Upconversion Nanoparticle Based Optical Sensors for Targeted Detection of mRNA Biomarkers Present in Alzheimer's Disease and Prostate Cancer. ACS Sensors, 2017, 2, 52-56.	4.0	107
21	Multiplexed mRNA Sensing and Combinatorial-Targeted Drug Delivery Using DNA-Gold Nanoparticle Dimers. ACS Nano, 2018, 12, 3333-3340.	7.3	107
22	Plasmonic nanoantennas as integrated coherent perfect absorbers on SOI waveguides for modulators and all-optical switches. Optics Express, 2013, 21, 27652.	1.7	102
23	Manipulation of <i>in Vitro</i> Angiogenesis Using Peptide-Coated Gold Nanoparticles. ACS Nano, 2013, 7, 5628-5636.	7.3	89
24	Antenna-assisted picosecond control of nanoscale phase transition in vanadium dioxide. Light: Science and Applications, 2016, 5, e16173-e16173.	7.7	87
25	Optimal Polarization Conversion in Coupled Dimer Plasmonic Nanoantennas for Metasurfaces. ACS Nano, 2014, 8, 6390-6399.	7.3	81
26	Single metal nanoparticle absorption spectroscopy and optical characterization. Applied Physics Letters, 2006, 88, 063109.	1.5	80
27	Optical extinction spectrum of a single metal nanoparticle: Quantitative characterization of a particle and of its local environment. Physical Review B, 2008, 78, .	1.1	80
28	Graphene Oxide-Upconversion Nanoparticle Based Portable Sensors for Assessing Nutritional Deficiencies in Crops. ACS Nano, 2018, 12, 6273-6279.	7.3	79
29	Ultrafast Nonlinear Control of Progressively Loaded, Single Plasmonic Nanoantennas Fabricated Using Helium Ion Milling. Nano Letters, 2013, 13, 5647-5653.	4.5	76
30	Ultrafast plasmonics using transparent conductive oxide hybrids in the epsilon-near-zero regime. Applied Physics Letters, 2013, 102, .	1.5	75
31	Hotspot-mediated ultrafast nonlinear control of multifrequency plasmonic nanoantennas. Nature Communications, 2014, 5, 4869.	5.8	75
32	Giant optical birefringence in ensembles of semiconductor nanowires. Applied Physics Letters, 2006, 89, 233117.	1.5	66
33	Optical response of a single noble metal nanoparticle. Journal of Optics, 2006, 8, S264-S272.	1.5	63
34	High Amplitude, Ultrashort, Longitudinal Strain Solitons in Sapphire. Physical Review Letters, 2002, 89, 285504.	2.9	59
35	Epitaxial Growth of Aligned Semiconductor Nanowire Metamaterials for Photonic Applications. Advanced Functional Materials, 2008, 18, 1039-1046.	7.8	56
36	Laser-Induced Damage and Recovery of Plasmonically Targeted Human Endothelial Cells. Nano Letters, 2011, 11, 1358-1363.	4.5	50

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37	Hyperspectral darkfield microscopy of single hollow gold nanoparticles for biomedical applications. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 4163-4168.	1.3	50
38	Mesoscopic light transport by very strong collective multiple scattering in nanowire mats. <i>Nature Photonics</i> , 2013, 7, 413-418.	15.6	50
39	Tailoring Second-Harmonic Generation in Single L-Shaped Plasmonic Nanoantennas from the Capacitive to Conductive Coupling Regime. <i>ACS Photonics</i> , 2015, 2, 1592-1601.	3.2	49
40	All-optical spatial light modulator for reconfigurable silicon photonic circuits. <i>Optica</i> , 2016, 3, 396.	4.8	47
41	Deep learning enabled real time speckle recognition and hyperspectral imaging using a multimode fiber array. <i>Optics Express</i> , 2019, 27, 20965.	1.7	47
42	Interference, Coupling, and Nonlinear Control of High-Order Modes in Single Asymmetric Nanoantennas. <i>ACS Nano</i> , 2012, 6, 6462-6470.	7.3	46
43	Coherent Interactions of Terahertz Strain Solitons and Electronic Two-Level Systems in Photoexcited Ruby. <i>Physical Review Letters</i> , 2004, 92, 035503.	2.9	45
44	Device-level characterization of the flow of light in integrated photonic circuits using ultrafast photomodulation spectroscopy. <i>Nature Photonics</i> , 2015, 9, 54-60.	15.6	44
45	Deep Learning Enabled Design of Complex Transmission Matrices for Universal Optical Components. <i>ACS Photonics</i> , 2021, 8, 283-295.	3.2	44
46	Electrodynamic calculations of spontaneous emission coupled to metal nanostructures of arbitrary shape: nanoantenna-enhanced fluorescence. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 1569.	0.9	42
47	An ultrafast reconfigurable nanophotonic switch using wavefront shaping of light in a nonlinear nanomaterial. <i>Light: Science and Applications</i> , 2014, 3, e207-e207.	7.7	41
48	Fast Assembly of Gold Nanoparticles in Large-Area 2D Nanogrids Using a One-Step, Near-Infrared Radiation-Assisted Evaporation Process. <i>ACS Nano</i> , 2016, 10, 2232-2242.	7.3	41
49	VO <sub>2</sub> metasurface smart thermal emitter with high visual transparency for passive radiative cooling regulation in space and terrestrial applications. <i>Nanophotonics</i> , 2022, 11, 4101-4114.	2.9	37
50	Accurate inverse design of Fabry-Pérot-cavity-based color filters far beyond sRGB via a bidirectional artificial neural network. <i>Photonics Research</i> , 2021, 9, B236.	3.4	35
51	Extreme Subwavelength Metal Oxide Direct and Complementary Metamaterials. <i>ACS Photonics</i> , 2015, 2, 606-614.	3.2	33
52	Light-Induced Reversible DNA Ligation of Gold Nanoparticle Superlattices. <i>ACS Nano</i> , 2019, 13, 5771-5777.	7.3	32
53	Broadband enhanced backscattering spectroscopy of strongly scattering media. <i>Optics Express</i> , 2008, 16, 1222.	1.7	31
54	Hybrid Photon-Plasmon Coupling and Ultrafast Control of Nanoantennas on a Silicon Photonic Chip. <i>Nano Letters</i> , 2018, 18, 610-617.	4.5	30

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55	Experimental studies on the mode structure of random lasers. <i>Physical Review A</i> , 2010, 81, .	1.0	29
56	Transparent conducting oxides for active hybrid metamaterial devices. <i>Journal of Optics (United Kingdom)</i> , 2010, 10, 075007.	1.0	29
57	Antenna resonances in low aspect ratio semiconductor nanowires. <i>Optics Express</i> , 2015, 23, 22771.	1.7	29
58	Speckle-based hyperspectral imaging combining multiple scattering and compressive sensing in nanowire mats. <i>Optics Letters</i> , 2017, 42, 1820.	1.7	29
59	Mid-Infrared Nanometallic Antenna Assisted Silicon Waveguide Based Bolometers. <i>ACS Photonics</i> , 2019, 6, 3253-3260.	3.2	27
60	Design of plasmonic directional antennas via evolutionary optimization. <i>Optics Express</i> , 2019, 27, 29069.	1.7	25
61	Nanoparticles for inhibition of in vitro tumour angiogenesis: synergistic actions of ligand function and laser irradiation. <i>Biomaterials Science</i> , 2015, 3, 733-741.	2.6	24
62	Sensing of Vimentin mRNA in 2D and 3D Models of Wounded Skin Using DNA-Coated Gold Nanoparticles. <i>Small</i> , 2018, 14, e1703489.	5.2	23
63	Plasmonic Response of Ag- and Au-Infiltrated Cross-Linked Lysozyme Crystals. <i>Advanced Functional Materials</i> , 2013, 23, 281-290.	7.8	22
64	Partial Nonlinear Reciprocity Breaking through Ultrafast Dynamics in a Random Photonic Medium. <i>Physical Review Letters</i> , 2012, 108, 223906.	2.9	21
65	Polarization conversion in plasmonic nanoantennas for metasurfaces using structural asymmetry and mode hybridization. <i>Scientific Reports</i> , 2017, 7, 40906.	1.6	21
66	Real-time monitoring and gradient feedback enable accurate trimming of ion-implanted silicon photonic devices. <i>Optics Express</i> , 2018, 26, 24953.	1.7	21
67	Chemically modified nucleic acids and DNA intercalators as tools for nanoparticle assembly. <i>Chemical Society Reviews</i> , 2021, 50, 13410-13440.	18.7	20
68	Embedded Metal Oxide Plasmonics Using Local Plasma Oxidation of AZO for Planar Metasurfaces. <i>Advanced Materials</i> , 2020, 32, e2001534.	11.1	18
69	Nanometallic antenna-assisted amorphous silicon waveguide integrated bolometer for mid-infrared. <i>Optics Letters</i> , 2021, 46, 677.	1.7	17
70	Deep Learning Enabled Strategies for Modeling of Complex Aperiodic Plasmonic Metasurfaces of Arbitrary Size. <i>ACS Photonics</i> , 2022, 9, 575-585.	3.2	17
71	Inelastic light scattering by trains of ultrashort acoustic solitons in sapphire. <i>Physical Review B</i> , 2004, 70, .	1.1	16
72	Optical transmission matrix as a probe of the photonic strength. <i>Physical Review A</i> , 2016, 94, .	1.0	16

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73	Broadband thin-film and metamaterial absorbers using refractory vanadium nitride and their thermal stability. <i>Optics Express</i> , 2021, 29, 33456.	1.7	16
74	Snapshot fiber spectral imaging using speckle correlations and compressive sensing. <i>Optics Express</i> , 2018, 26, 32302.	1.7	16
75	Dynamics of vibrations in a mixed amorphous-nanocrystalline Si system. <i>Physical Review B</i> , 2001, 64, .	1.1	15
76	Optimised atmospheric pressure CVD of monoclinic VO <sub>2</sub> thin films with picosecond phase transition. <i>Surface and Coatings Technology</i> , 2016, 287, 160-165.	2.2	15
77	Superresolved polarization-enhanced second-harmonic generation for direct imaging of nanoscale changes in collagen architecture. <i>Optica</i> , 2021, 8, 674.	4.8	15
78	Directed organization of gold nanoparticles in polymer coatings through infrared-assisted evaporative lithography. <i>Chemical Communications</i> , 2013, 49, 4253-4255.	2.2	14
79	Inverse design of structural color: finding multiple solutions <i>via</i> conditional generative adversarial networks. <i>Nanophotonics</i> , 2022, 11, 3057-3069.	2.9	14
80	Gigahertz Nano-Optomechanical Resonances in a Dielectric SiC-Membrane Metasurface Array. <i>Nano Letters</i> , 2021, 21, 4563-4569.	4.5	13
81	Formation and Plasmonic Response of Self-Assembled Layers of Colloidal Gold Nanorods and Branched Gold Nanoparticles. <i>Langmuir</i> , 2012, 28, 8874-8880.	1.6	12
82	Time-resolved reversible optical switching of the ultralow-loss phase change material Sb <sub>2</sub> Se <sub>3</sub> . <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 064013.	1.0	12
83	Review of Open Cavity Random Lasers as Laser-Based Sensors. <i>ACS Sensors</i> , 2022, 7, 914-928.	4.0	12
84	Method for broadband spectroscopy of light transport through opaque scattering media. <i>Optics Letters</i> , 2009, 34, 395.	1.7	11
85	Picosecond optically reconfigurable filters exploiting full free spectral range tuning of single ring and Vernier effect resonators. <i>Optics Express</i> , 2015, 23, 12468.	1.7	11
86	A SARS-Cov-2 sensor based on upconversion nanoparticles and graphene oxide. <i>RSC Advances</i> , 2022, 12, 18445-18449.	1.7	11
87	Ultrafast Dephasing of Light in Strongly Scattering GaP Nanowires. <i>Physical Review Letters</i> , 2011, 106, 143902.	2.9	10
88	Spatial modulation microscopy for real-time imaging of plasmonic nanoparticles and cells. <i>Optics Letters</i> , 2012, 37, 3015.	1.7	10
89	Molecular alignment induced ultraviolet femtosecond pulse modulation. <i>Optics Express</i> , 2013, 21, 27662.	1.7	10
90	Interactions of ultrashort strain solitons and terahertz electronic two-level systems in photoexcited ruby. <i>Physical Review B</i> , 2005, 71, .	1.1	9

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91	Local and anisotropic excitation of surface plasmon polaritons by semiconductor nanowires. Optics Express, 2008, 16, 5013.	1.7	9
92	Nanoscale modeling of electro-plasmonic tunable devices for modulators and metasurfaces. Optics Express, 2017, 25, 10031.	1.7	9
93	In-Depth Analysis of Excitation Dynamics in Dye-Sensitized Upconversion Core and Core/Active Shell Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 18177-18184.	1.5	9
94	Polarizabilities of complex individual dielectric or plasmonic nanostructures. Physical Review B, 2020, 101, .	1.1	9
95	Ion Implantation of Germanium Into Silicon for Critical Coupling Control of Racetrack Resonators. Journal of Lightwave Technology, 2020, 38, 1865-1873.	2.7	9
96	A DNA sensor based on upconversion nanoparticles and two-dimensional dichalcogenide materials. Frontiers of Chemical Science and Engineering, 2021, 15, 935-943.	2.3	9
97	Modification of the photoluminescence anisotropy of semiconductor nanowires by coupling to surface plasmon polaritons. Optics Letters, 2007, 32, 2097.	1.7	8
98	Broadband coherent backscattering spectroscopy of the interplay between order and disorder in three-dimensional opal photonic crystals. Physical Review B, 2011, 83, .	1.1	8
99	Mechanically Tunable Terahertz Metamaterial Perfect Absorber. Advanced Photonics Research, 2021, 2, 2100136.	1.7	8
100	Enhanced light extraction from emitters close to clusters of resonant plasmonic nanoantennas. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 149, 216-219.	1.7	7
101	Angle dependence of the frequency correlation in random photonic media: Diffusive regime and its breakdown near localization. Physical Review B, 2011, 84, .	1.1	7
102	Electron beam lithography tri-layer lift-off to create ultracompact metal/metal oxide 2D patterns on CaF <sub>2</sub> substrate for surface-enhanced infrared spectroscopy. Microelectronic Engineering, 2015, 141, 87-91.	1.1	7
103	Angle-resolved photon-coincidence measurements in a multiple-scattering medium. Physical Review A, 2011, 83, .	1.0	6
104	Observation of intensity statistics of light transmitted through 3D random media. Optics Letters, 2014, 39, 6347.	1.7	6
105	Ultrafast perturbation maps as a quantitative tool for testing of multi-port photonic devices. Nature Communications, 2018, 9, 2246.	5.8	6
106	Wafer-Scale 200 nm Metal Oxide Infrared Metasurface with Tailored Differential Emissivity Response in the Atmospheric Windows. Advanced Optical Materials, 2022, 10, .	3.6	6
107	Role of light scattering in the performance of fluorescent solar collectors. Journal of Photonics for Energy, 2012, 2, 021801.	0.8	5
108	Ultrafast all-optical order-to-chaos transition in silicon photonic crystal chips. Laser and Photonics Reviews, 2016, 10, 688-695.	4.4	5

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109	Polycrystalline ZnO nanorods for lasing applications. Journal of Applied Physics, 2019, 125, .	1.1	5
110	Optical Anisotropy of Semiconductor Nanowires. , 2008, , 127-145.		5
111	Propagation of ultrashort acoustic wave packets in PbMoO <sub>4</sub> studied by Brillouin spectroscopy. Physica B: Condensed Matter, 2002, 316-317, 373-376.	1.3	4
112	Ultrafast Plasmonic Nanoantenna-ITO Hybrid Switches. International Journal of Optics, 2012, 2012, 1-5.	0.6	4
113	Weak localization of photon noise. New Journal of Physics, 2013, 15, 105009.	1.2	4
114	Single-nanoantenna driven nanoscale control of the VO <sub>2</sub> insulator to metal transition. Nanophotonics, 2021, 10, 3745-3758.	2.9	4
115	Towards ultrafast pump-probe spectroscopy on trains of strain solitons. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 2753-2756.	0.8	3
116	Single-nanoparticle detection and spectroscopy in cells using a hyperspectral darkfield imaging technique. , 2013, , .		3
117	Plasmonics and Metamaterials with Transparent Conducting Oxides. ECS Transactions, 2014, 64, 291-298.	0.3	3
118	New plasmonic materials and fabrication tools for near- and mid-infrared sensing and spectroscopy. , 2015, , .		3
119	Towards nanoantenna electron switches. Annalen Der Physik, 2013, 525, A21.	0.9	2
120	Tunable repetition rate VECSEL for resonant acoustic-excitation of nanostructures. Proceedings of SPIE, 2016, , .	0.8	2
121	Strongly coupled evenly divided disks: a new compact and tunable platform for plasmonic Fano resonances. Nanotechnology, 2020, 31, 325202.	1.3	2
122	DNA: Gold nanoparticles designed for mRNA sensing in cells: imaging of the gold nanoparticles using two photon photoluminescence spectroscopy.. , 2019, , .		2
123	Imaging through highly scattering environments using ballistic and quasi-ballistic light in a common-path Sagnac interferometer. Optics Express, 2020, 28, 10386.	1.7	2
124	Ge Ion Implanted Photonic Devices and Annealing for Emerging Applications. Micromachines, 2022, 13, 291.	1.4	2
125	Trains of ultrashort acoustic solitons. Physica Status Solidi (B): Basic Research, 2004, 241, 3469-3473.	0.7	1
126	The 29-cm <sup>-1</sup> ruby phonon detector as a probe for ultrashort strain solitons. Journal of Luminescence, 2004, 108, 281-284.	1.5	1



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127	Ultrashort strain soliton formation in sapphire and ruby. Journal of Luminescence, 2004, 108, 297-299.	1.5	1
128	Optical spectroscopy of metal nanoparticles: single particle detection (Invited Paper). , 2005, , .		1
129	Measurements on the optical transmission matrices of strongly scattering nanowire layers. , 2013, , .		1
130	Ultrafine control of partially loaded single plasmonic nanoantennas fabricated using e-beam lithography and helium ion beam milling. , 2014, , .		1
131	Plasmonic properties of superconducting niobium in the optical part of the spectrum. , 2017, , .		1
132	Surface-Enhanced Infrared Spectroscopy using ultra-compact indium tin oxide (ITO) sensor arrays. , 2014, , .		1
133	Germanium implanted photonic devices for post-fabrication trimming and programmable circuits. , 2018, , .		1
134	Optical response of gold and upconversion nanoparticles assembled via DNA interaction. , 2019, , .		1
135	AZO nanowires as a random laser. , 2020, , .		1
136	Visible to Near-infrared Chip-integrated Tunable Optical Modulators Based on Niobium Plasmonic Nano-antenna and Nano-circuit Metasurface Arrays. , 2022, , .		1
137	Phonon dynamics in amorphous and nanocrystalline silicon. Journal of Luminescence, 1999, 83-84, 161-165.	1.5	0
138	Development of trains of ultrashort strain solitons in sapphire and ruby. , 2004, 5352, 144.		0
139	Absorption spectroscopy and identification of single metal nanoparticles. , 2005, , .		0
140	Détection et caractérisation optiques d'une nanoparticule métallique isolée. European Physical Journal Special Topics, 2006, 135, 43-50.	0.2	0
141	Broadband Birefringence of GaP Nanowires. , 2007, , .		0
142	Optical anisotropy of semiconductor nanowires. , 2009, , .		0
143	Spatial Photon Correlations in Multiple Scattering Media. , 2010, , .		0
144	Plasmonic nanoantennas as building blocks for ultracompact photonic devices. , 2010, , .		0

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145	Ultrafast active control of optical transmission pseudomodes in a multiple scattering nanowire layer. , 2011, , .		0
146	Modeling and experimental realization of nanoantenna hybrid optical switching devices. Proceedings of SPIE, 2011, , .	0.8	0
147	Gold nanoparticles in biomedical applications. , 2011, , .		0
148	Functional nanoparticles in cells. Proceedings of SPIE, 2012, , .	0.8	0
149	Tailoring of YIG film properties via compositional tuning by multi-beam pulsed laser deposition. , 2013, , .		0
150	Mesoscopic light trapping in random arrays of semiconductor nanowires. , 2013, , .		0
151	Ultrafast adiabatic control of reciprocity and coherent backscattering in random scattering media. Proceedings of SPIE, 2013, , .	0.8	0
152	Coherent perfect absorption by plasmonic nanoantennas on SOI waveguides. , 2014, , .		0
153	Quantification of misalignment in e-beam lithography due to height map error on optically non-uniform substrates for plasmonic nanoantennas. , 2015, , .		0
154	Plasmonic nanoantenna coherent absorption switches for integrated photonics. , 2015, , .		0
155	Tuning the linear and non-linear optical response of orthogonal dimmer antennas for metasurfaces. , 2016, , .		0
156	Dynamic control of chaotic resonators. , 2016, , .		0
157	Functionalized nanoparticles and applications. , 2017, , .		0
158	Ultrafast Spectroscopy and Nonlinear Control of Single Nanoparticles and Antennas. World Scientific Series in Nanoscience and Nanotechnology, 2017, , 197-253.	0.1	0
159	Metal oxide metasurfaces for active control and space technology. , 2017, , .		0
160	Electrically tunable gap-loaded plasmonic nanostructures. , 2017, , .		0
161	Real-Time Phase Trimming of Mach-Zehnder Interferometers by Femtosecond Laser Annealing of Germanium Implanted Waveguides. , 2018, , .		0
162	Mid-Infrared Silicon Waveguide-Based Bolometer. , 2019, , .		0

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163	Mid-Infrared Silicon Waveguide-Based Bolometer. , 2019, , .		0
164	High-Amplitude, Ultrashort Strain Solitons in Solids. , 2005, , 15-48.		0
165	Hybrid Plasmonic Nanodevices for All-optical Control of Information. , 2012, , .		0
166	All-optical ultrafast control of SOI waveguide elements employing localized absorption. , 2014, , .		0
167	Ultrafast control of plasmonic nanoantennas driven by hot-spot induced phase-transitions in VO <sub>2</sub> . , 2016, , .		0
168	Interactions of DNA coated upconversion nanoparticles with 2D materials. , 2018, , .		0
169	A speckle-based approach to compressive hyperspectral imaging. , 2018, , .		0
170	A compressive approach to speckle-based imaging spectroscopy. , 2018, , .		0
171	High-Amplitude, Ultrashort Strain Solitons in Solids. , 2018, , 15-48.		0
172	Metal Oxide Meta-Optical Solar Reflectors for Space Applications. , 2020, , .		0
173	A Novel Selective Carrier Modulation Technique to Form a Planar Metal Oxide Metasurface. , 2021, , .		0
174	Deep learning enabled design of free-space and integrated nanophotonic devices. , 2021, , .		0