Harald Giessen

List of Publications by Year
in descending order

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581	38,339	3525 90	3402 183
papers	citations	h-index	g-index

593	593	593	23567
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Fano resonance in plasmonic nanostructures and metamaterials. Nature Materials, 2010, 9, 707-715.	13.3	3,352
2	Infrared Perfect Absorber and Its Application As Plasmonic Sensor. Nano Letters, 2010, 10, 2342-2348.	4.5	2,513
3	Plasmonic analogue of electromagnetically induced transparency at the Drude damping limit. Nature Materials, 2009, 8, 758-762.	13.3	1,651
4	Planar Metamaterial Analogue of Electromagnetically Induced Transparency for Plasmonic Sensing. Nano Letters, 2010, 10, 1103-1107.	4.5	1,135
5	Nanoantenna-enhanced gas sensing in a single tailored nanofocus. Nature Materials, 2011, 10, 631-636.	13.3	863
6	Three-dimensional photonic metamaterials at optical frequencies. Nature Materials, 2008, 7, 31-37.	13.3	836
7	Stereometamaterials. Nature Photonics, 2009, 3, 157-162.	15.6	643
8	Two-photon direct laser writing of ultracompact multi-lens objectives. Nature Photonics, 2016, 10, 554-560.	15.6	641
9	Chiral plasmonics. Science Advances, 2017, 3, e1602735.	4.7	583
10	Transition from Isolated to Collective Modes in Plasmonic Oligomers. Nano Letters, 2010, 10, 2721-2726.	4.5	544
11	Waveguide-Plasmon Polaritons: Strong Coupling of Photonic and Electronic Resonances in a Metallic Photonic Crystal Slab. Physical Review Letters, 2003, 91, 183901.	2.9	534
12	Three-Dimensional Plasmon Rulers. Science, 2011, 332, 1407-1410.	6.0	522
13	Linear refractive index and absorption measurements of nonlinear optical liquids in the visible and near-infrared spectral region. Optical Materials Express, 2012, 2, 1588.	1.6	505
14	A Switchable Midâ€Infrared Plasmonic Perfect Absorber with Multispectral Thermal Imaging Capability. Advanced Materials, 2015, 27, 4597-4603.	11.1	487
15	Correlated electron emission in multiphoton double ionization. Nature, 2000, 405, 658-661.	13.7	482
16	Surface-Enhanced Infrared Spectroscopy Using Resonant Nanoantennas. Chemical Reviews, 2017, 117, 5110-5145.	23.0	457
17	Palladium-Based Plasmonic Perfect Absorber in the Visible Wavelength Range and Its Application to Hydrogen Sensing. Nano Letters, 2011, 11, 4366-4369.	4.5	385
18	Nonreciprocal plasmonics enables giant enhancement of thin-film Faraday rotation. Nature Communications, 2013, 4, 1599.	5.8	353

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19	Three-Dimensional Chiral Plasmonic Oligomers. Nano Letters, 2012, 12, 2542-2547.	4.5	342
20	Interpreting Chiral Nanophotonic Spectra: The Plasmonic Bornâ€“Kuhn Model. Nano Letters, 2013, 13, 6238-6243.	4.5	336
21	Beam switching and bifocal zoom lensing using active plasmonic metasurfaces. Light: Science and Applications, 2017, 6, e17016-e17016.	7.7	313
22	XFROG ? A New Method for Amplitude and Phase Characterization of Weak Ultrashort Pulses. Physica Status Solidi (B): Basic Research, 1998, 206, 119-124.	0.7	302
23	Recoil-Ion Momentum Distributions for Single and Double Ionization of Helium in Strong Laser Fields. Physical Review Letters, 2000, 84, 443-446.	2.9	301
24	3D optical Yagiâ€“Uda nanoantenna array. Nature Communications, 2011, 2, 267.	5.8	292
25	Synthesis and Characterization of InP, GaP, and GaInP2 Quantum Dots. The Journal of Physical Chemistry, 1995, 99, 7754-7759.	2.9	290
26	On the reinterpretation of resonances in split-ring-resonators at normal incidence. Optics Express, 2006, 14, 8827.	1.7	289
27	Coupling Effects in Optical Metamaterials. Angewandte Chemie - International Edition, 2010, 49, 9838-9852.	7.2	287
28	Active Chiral Plasmonics. Nano Letters, 2015, 15, 4255-4260.	4.5	271
29	Controlling the Interaction between Light and Gold Nanoparticles: Selective Suppression of Extinction. Physical Review Letters, 2001, 86, 4688-4691.	2.9	262
30	Large-Area 3D Chiral Plasmonic Structures. ACS Nano, 2013, 7, 6321-6329.	7.3	256
31	Plasmonic Oligomers: The Role of Individual Particles in Collective Behavior. ACS Nano, 2011, 5, 2042-2050.	7.3	255
32	Magnetoinductive and Electroinductive Coupling in Plasmonic Metamaterial Molecules. Advanced Materials, 2008, 20, 4521-4525.	11.1	253
33	Sub-micrometre accurate free-form optics by three-dimensional printing on single-mode fibres. Nature Communications, 2016, 7, 11763.	5.8	248
34	Cavity-enhanced localized plasmon resonance sensing. Applied Physics Letters, 2010, 97, .	1.5	242
35	Classical Analog of Electromagnetically Induced Absorption in Plasmonics. Nano Letters, 2012, 12, 1367-1371.	4.5	235
36	Tailoring Enhanced Optical Chirality: Design Principles for Chiral Plasmonic Nanostructures. Physical Review X, 2012, 2, .	2.8	227

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37	3D-printed eagle eye: Compound microlens system for foveated imaging. Science Advances, 2017, 3, e1602655.	4.7	227
38	Optical properties of planar metallic photonic crystal structures:â€ƒExperiment and theory. Physical Review B, 2004, 70, .	1.1	225
39	Revealing the subfemtosecond dynamics of orbital angular momentum in nanoplasmonic vortices. Science, 2017, 355, 1187-1191.	6.0	217
40	Plasmon Hybridization in Stacked Cutâ€Wire Metamaterials. Advanced Materials, 2007, 19, 3628-3632.	11.1	207
41	Ultrafast nonlinear optofluidics in selectively liquid-filled photonic crystal fibers. Optics Express, 2010, 18, 25232.	1.7	185
42	Babinetâ€™s principle for optical frequency metamaterials and nanoantennas. Physical Review B, 2007, 76, .	1.1	182
43	Threeâ€Dimensional Bichiral Plasmonic Crystals Fabricated by Direct Laser Writing and Electroless Silver Plating. Advanced Materials, 2011, 23, 3018-3021.	11.1	182
44	Helical Plasmonic Nanostructures as Prototypical Chiral Near-Field Sources. ACS Photonics, 2014, 1, 530-537.	3.2	179
45	The Role of Plasmon-Generated Near Fields for Enhanced Circular Dichroism Spectroscopy. ACS Photonics, 2016, 3, 578-583.	3.2	172
46	Thermodynamics of the hybrid interaction of hydrogen with palladium nanoparticles. Nature Materials, 2016, 15, 311-317.	13.3	170
47	Theoretical design of a liquid-core photonic crystal fiber for supercontinuum generation. Optics Express, 2006, 14, 6800.	1.7	163
48	Magnesium as Novel Material for Active Plasmonics in the Visible Wavelength Range. Nano Letters, 2015, 15, 7949-7955.	4.5	162
49	Resonances of split-ring resonator metamaterials in the near infrared. Applied Physics B: Lasers and Optics, 2006, 84, 219-227.	1.1	161
50	Periodic Largeâ€Area Metallic Splitâ€Ring Resonator Metamaterial Fabrication Based on Shadow Nanosphere Lithography. Small, 2009, 5, 400-406.	5.2	157
51	Doubling the Efficiency of Third Harmonic Generation by Positioning ITO Nanocrystals into the Hot-Spot of Plasmonic Gap-Antennas. Nano Letters, 2014, 14, 2867-2872.	4.5	155
52	Quantitative Modeling of the Third Harmonic Emission Spectrum of Plasmonic Nanoantennas. Nano Letters, 2012, 12, 3778-3782.	4.5	154
53	Plasmonic Building Blocks for Magnetic Molecules in Threeâ€Dimensional Optical Metamaterials. Advanced Materials, 2008, 20, 3859-3865.	11.1	152
54	Nonlinear Plasmonic Sensing. Nano Letters, 2016, 16, 3155-3159.	4.5	150

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55	Formation of chiral fields in a symmetric environment. Optics Express, 2012, 20, 26326.	1.7	149
56	Hole-Mask Colloidal Nanolithography for Large-Area Low-Cost Metamaterials and Antenna-Assisted Surface-Enhanced Infrared Absorption Substrates. ACS Nano, 2012, 6, 979-985.	7.3	148
57	Microcavity plasmonics: strong coupling of photonic cavities and plasmons. Laser and Photonics Reviews, 2013, 7, 141-169.	4.4	145
58	Optical resonances of bowtie slot antennas and their geometry and material dependence. Optics Express, 2008, 16, 7756.	1.7	137
59	Phyllotaxis-inspired nanosieves with multiplexed orbital angular momentum. ELight, 2021, 1, .	11.9	132
60	Excitation and Tuning of Higher-Order Fano Resonances in Plasmonic Oligomer Clusters. ACS Nano, 2011, 5, 8202-8211.	7.3	130
61	Cavity Plasmonics: Large Normal Mode Splitting of Electric and Magnetic Particle Plasmons Induced by a Photonic Microcavity. Nano Letters, 2010, 10, 4394-4398.	4.5	128
62	Metallic Photonic Crystals Based on Solution-Processible Gold Nanoparticles. Nano Letters, 2006, 6, 651-655.	4.5	126
63	Strong Enhancement of Second Harmonic Emission by Plasmonic Resonances at the Second Harmonic Wavelength. Nano Letters, 2015, 15, 3917-3922.	4.5	122
64	Nanoantenna-enhanced ultrafast nonlinear spectroscopy of a single gold nanoparticle. Nature Communications, 2011, 2, .	5.8	118
65	Refractive index measurements of photo-resists for three-dimensional direct laser writing. Optical Materials Express, 2017, 7, 2293.	1.6	118
66	Excitonic Fano Resonance in Free-Standing Graphene. Nano Letters, 2011, 11, 1379-1382.	4.5	117
67	Matched coordinates and adaptive spatial resolution in the Fourier modal method. Optics Express, 2009, 17, 8051.	1.7	115
68	Nonlinear Refractory Plasmonics with Titanium Nitride Nanoantennas. Nano Letters, 2016, 16, 5708-5713.	4.5	115
69	Fabrication of Square-Centimeter Plasmonic Nanoantenna Arrays by Femtosecond Direct Laser Writing Lithography: Effects of Collective Excitations on SEIRA Enhancement. ACS Photonics, 2015, 2, 779-786.	3.2	113
70	Ultrafast energy relaxation in quantum dots. Physical Review B, 1996, 54, 17681-17690.	1.1	111
71	Amplitude and phase characterization of weak blue ultrashort pulses by downconversion. Optics Letters, 1999, 24, 569.	1.7	110
72	Optical properties of photoresists for femtosecond 3D printing: refractive index, extinction, luminescence-dose dependence, aging, heat treatment and comparison between 1-photon and 2-photon exposure. Optical Materials Express, 2019, 9, 4564.	1.6	110

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73	Controlling the interaction between localized and delocalized surface plasmon modes: Experiment and numerical calculations. Physical Review B, 2006, 74, .	1.1	109
74	Integration of a Rib Waveguide Distributed Feedback Structure into a Lightâ€Emitting Polymer Fieldâ€Effect Transistor. Advanced Functional Materials, 2009, 19, 1360-1370.	7.8	106
75	Third Harmonic Mechanism in Complex Plasmonic Fano Structures. ACS Photonics, 2014, 1, 471-476.	3.2	106
76	Near-Field Dynamics of Optical Yagi-Uda Nanoantennas. Nano Letters, 2011, 11, 2819-2824.	4.5	105
77	Ultrafast vector imaging of plasmonic skyrmion dynamics with deep subwavelength resolution. Science, 2020, 368, .	6.0	105
78	Self-Induced Transmission on a Free Exciton Resonance in a Semiconductor. Physical Review Letters, 1998, 81, 4260-4263.	2.9	104
79	Plasmonic Smart Dust for Probing Local Chemical Reactions. Nano Letters, 2013, 13, 1816-1821.	4.5	104
80	Optical Properties of Chiral Three-Dimensional Plasmonic Oligomers at the Onset of Charge-Transfer Plasmons. ACS Nano, 2012, 6, 10355-10365.	7.3	103
81	Vibrational near-field mapping of planar and buried three-dimensional plasmonic nanostructures. Nature Communications, 2013, 4, 2237.	5.8	103
82	Quantitative Angle-Resolved Small-Spot Reflectance Measurements on Plasmonic Perfect Absorbers: Impedance Matching and Disorder Effects. ACS Nano, 2014, 8, 10885-10892.	7.3	103
83	Towards the Origin of the Nonlinear Response in Hybrid Plasmonic Systems. Physical Review Letters, 2011, 106, 133901.	2.9	99
84	Plasmonic gas and chemical sensing. Nanophotonics, 2014, 3, 157-180.	2.9	98
85	Resonance hybridization in double split-ring resonator metamaterials. Optics Express, 2007, 15, 12095.	1.7	96
86	Imaging and steering an optical wireless nanoantenna link. Nature Communications, 2014, 5, 4354.	5.8	96
87	Tailoring the Ultrafast Dephasing of Quasiparticles in Metallic Photonic Crystals. Physical Review Letters, 2004, 93, 243901.	2.9	94
88	Spatial beam intensity shaping using phase masks on single-mode optical fibers fabricated by femtosecond direct laser writing. Optica, 2016, 3, 448.	4.8	94
89	Hydrogen-Regulated Chiral Nanoplasmonics. Nano Letters, 2016, 16, 1462-1466.	4.5	94
90	Babinet to the Half: Coupling of Solid and Inverse Plasmonic Structures. Nano Letters, 2013, 13, 4428-4433.	4.5	92

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91	Simple Analytical Expression for the Peak-Frequency Shifts of Plasmonic Resonances for Sensing. Nano Letters, 2015, 15, 3439-3444.	4.5	92
92	Plasmonic Diastereomers: Adding up Chiral Centers. Nano Letters, 2013, 13, 600-606.	4.5	88
93	Tailoring Magnetic Dipole Emission with Plasmonic Split-Ring Resonators. Physical Review Letters, 2013, 111, 026803.	2.9	86
94	Yttrium Hydride Nanoantennas for Active Plasmonics. Nano Letters, 2014, 14, 1140-1147.	4.5	86
95	Electrically switchable metallic polymer nanoantennas. Science, 2021, 374, 612-616.	6.0	86
96	Functionalized Hydrogel on Plasmonic Nanoantennas for Noninvasive Glucose Sensing. ACS Photonics, 2015, 2, 475-480.	3.2	85
97	Tunable and switchable polarization rotation with non-reciprocal plasmonic thin films at designated wavelengths. Light: Science and Applications, 2015, 4, e284-e284.	7.7	84
98	A Surface-Emitting Circular Grating Polymer Laser. Advanced Materials, 2001, 13, 1161-1164.	11.1	82
99	DNA-assembled bimetallic plasmonic nanosensors. Light: Science and Applications, 2014, 3, e226-e226.	7.7	80
100	Highly Efficient Dual-Fiber Optical Trapping with 3D Printed Diffractive Fresnel Lenses. ACS Photonics, 2020, 7, 88-97.	3.2	80
101	Ultrathin monolithic 3D printed optical coherence tomography endoscopy for preclinical and clinical use. Light: Science and Applications, 2020, 9, 124.	7.7	80
102	Enhancing the Optical Excitation Efficiency of a Single Self-Assembled Quantum Dot with a Plasmonic Nanoantenna. Nano Letters, 2010, 10, 4555-4558.	4.5	79
103	Amplitude- and phase-resolved optical near fields of split-ring-resonator-based metamaterials. Optics Letters, 2008, 33, 848.	1.7	78
104	Largeâ€Area Lowâ€Cost Tunable Plasmonic Perfect Absorber in the Near Infrared by Colloidal Etching Lithography. Advanced Optical Materials, 2015, 3, 398-403.	3.6	77
105	Short-range surface plasmonics: Localized electron emission dynamics from a 60-nm spot on an atomically flat single-crystalline gold surface. Science Advances, 2017, 3, e1700721.	4.7	77
106	Spiral-type terahertz antennas and the manifestation of the Mushiake principle. Optics Express, 2009, 17, 9971.	1.7	76
107	Waveguide-Plasmon Polaritons Enhance Transverse Magneto-Optical Kerr Effect. Physical Review X, 2013, 3, .	2.8	75
108	Sequential and nonsequential contributions to double ionization in strong laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, L127-L133.	0.6	73

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109	From Dark to Bright: First-Order Perturbation Theory with Analytical Mode Normalization for Plasmonic Nanoantenna Arrays Applied to Refractive Index Sensing. Physical Review Letters, 2016, 116, 237401.	2.9	73
110	Transition from thin-film to bulk properties of metamaterials. Physical Review B, 2008, 77, .	1.1	71
111	Plasmonic analog of electromagnetically induced absorption: simulations, experiments, and coupled oscillator analysis. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 3123.	0.9	71
112	Third-harmonic spectroscopy and modeling of the nonlinear response of plasmonic nanoantennas. Optics Letters, 2012, 37, 4741.	1.7	69
113	Chiral Scatterometry on Chemically Synthesized Single Plasmonic Nanoparticles. ACS Nano, 2019, 13, 8659-8668.	7.3	69
114	Characteristics of supercontinuum generationin tapered fibers using femtosecond laser pulses. Applied Physics B: Lasers and Optics, 2003, 77, 245-251.	1.1	68
115	Spatial Extent of Plasmonic Enhancement of Vibrational Signals in the Infrared. ACS Nano, 2014, 8, 6250-6258.	7.3	68
116	Single mode fiber based delivery of OAM light by 3D direct laser writing. Optics Express, 2017, 25, 19672.	1.7	66
117	Microfluidic photonic crystal double heterostructures. Applied Physics Letters, 2007, 91, .	1.5	65
118	High-power mid-infrared high repetition-rate supercontinuum source based on a chalcogenide step-index fiber. Optics Letters, 2015, 40, 2668.	1.7	65
119	The origin of magnetic polarizability in metamaterials at optical frequencies - an electrodynamic approach. Optics Express, 2007, 15, 8871.	1.7	64
120	All-Optical Control of the Ultrafast Dynamics of a Hybrid Plasmonic System. Physical Review Letters, 2010, 104, 113903.	2.9	64
121	Reducing the Complexity: Enantioselective Chiral Near-Fields by Diagonal Slit and Mirror Configuration. ACS Photonics, 2016, 3, 1076-1084.	3.2	64
122	Large-Area Low-Cost Plasmonic Perfect Absorber Chemical Sensor Fabricated by Laser Interference Lithography. ACS Sensors, 2016, 1, 1148-1154.	4.0	64
123	Diffractive Spectral-Splitting Optical Element Designed by Adjoint-Based Electromagnetic Optimization and Fabricated by Femtosecond 3D Direct Laser Writing. ACS Photonics, 2016, 3, 886-894.	3.2	63
124	Single Quantum Dot with Microlens and 3D-Printed Micro-objective as Integrated Bright Single-Photon Source. ACS Photonics, 2017, 4, 1327-1332.	3.2	63
125	Two-Photon Pumped Lasing from a Two-Dimensional Photonic Bandgap Structure with Polymeric Gain Material. Advanced Materials, 2002, 14, 673-676.	11.1	62
126	Spectral shifts in optical nanoantenna-enhanced hydrogen sensors. Optical Materials Express, 2012, 2, 111.	1.6	61

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127	Large-Area High-Quality Plasmonic Oligomers Fabricated by Angle-Controlled Colloidal Nanolithography. ACS Nano, 2011, 5, 9009-9016.	7.3	60
128	Largeâ€Area Lowâ€Cost Plasmonic Nanostructures in the NIR for Fano Resonant Sensing. Advanced Materials, 2012, 24, OP247-52.	11.1	60
129	Large-area fabrication of TiN nanoantenna arrays for refractory plasmonics in the mid-infrared by femtosecond direct laser writing and interference lithography [Invited]. Optical Materials Express, 2015, 5, 2625.	1.6	60
130	Ultra-stable high average power femtosecond laser system tunable from 133 to 20â€‰â€‰Î¼m. Optics Letters, 2016, 41, 4863.	1.7	60
131	Resonances in complementary metamaterials and nanoapertures. Optics Express, 2008, 16, 2080.	1.7	59
132	From Near-Field to Far-Field Coupling in the Third Dimension: Retarded Interaction of Particle Plasmons. Nano Letters, 2011, 11, 4421-4424.	4.5	58
133	Towards integration of a liquid-filled fiber capillary for supercontinuum generation in the 12â€“24 Î¼m range. Optics Express, 2015, 23, 8281.	1.7	57
134	Combining in-situ lithography with 3D printed solid immersion lenses for single quantum dot spectroscopy. Scientific Reports, 2017, 7, 39916.	1.6	57
135	Periodic Nanostructures: Spatial Dispersion Mimics Chirality. Physical Review Letters, 2011, 106, 185501.	2.9	56
136	Comprehensive Study of Plasmonic Materials in the Visible and Near-Infrared: Linear, Refractory, and Nonlinear Optical Properties. ACS Photonics, 2018, 5, 1058-1067.	3.2	56
137	Nonreciprocal hybrid magnetoplasmonics. Reports on Progress in Physics, 2018, 81, 116401.	8.1	56
138	Simultaneous Optimization of Light Gain and Charge Transport in Ambipolar Light-Emitting Polymer Field-Effect Transistors. Chemistry of Materials, 2009, 21, 4425-4433.	3.2	55
139	High repetition rate mid-infrared supercontinuum generation from 13 to 53â€‰â€‰Î¼m in robust step-index tellurite fibers. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 601.	0.9	55
140	Imaging the Nonlinear Plasmoemission Dynamics of Electrons from Strong Plasmonic Fields. Nano Letters, 2017, 17, 6569-6574.	4.5	54
141	Near-fieldâ€“induced tunability of surface plasmon polaritons in composite metallic nanostructures. Journal of Microscopy, 2008, 229, 344-353.	0.8	53
142	Lagrange model for the chiral optical properties of stereometamaterials. Physical Review B, 2010, 81, .	1.1	53
143	Yttrium hydride nanoantennas for active plasmonics. , 2014, , .		53
144	Ultra-compact on-chip LED collimation optics by 3D femtosecond direct laser writing. Optics Letters, 2016, 41, 3029.	1.7	52

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145	Refractory Plasmonics without Refractory Materials. Nano Letters, 2017, 17, 6402-6408.	4.5	52
146	Correlation Effects in Disordered Metallic Photonic Crystal Slabs. Physical Review Letters, 2007, 98, 133902.	2.9	51
147	Three-dimensional optical metamaterials as model systems for longitudinal and transverse magnetic coupling. Optics Express, 2008, 16, 21233.	1.7	51
148	Resonant mode coupling of optical resonances in stacked nanostructures. Optics Express, 2010, 18, 7569.	1.7	51
149	High-power femtosecond mid-infrared optical parametric oscillator at 7â€‰â€‰Î¼m based on CdSiP_2. Optics Letters, 2015, 40, 1398.	1.7	51
150	Derivation of plasmonic resonances in the Fourier modal method with adaptive spatial resolution and matched coordinates. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 238.	0.8	50
151	Strong coupling of localized and surface plasmons to microcavity modes. Optics Letters, 2011, 36, 2218.	1.7	50
152	Fast profile measurement of micrometer-sized tapered fibers with better than 50-nm accuracy. Optics Letters, 2004, 29, 1727.	1.7	49
153	Large-area metallic photonic crystal fabrication with interference lithography and dry etching. Applied Physics B: Lasers and Optics, 2005, 81, 271-275.	1.1	49
154	Hydrogen sensor based on metallic photonic crystal slabs. Optics Letters, 2010, 35, 3150.	1.7	49
155	Largeâ€Area Antennaâ€Assisted SEIRA Substrates by Laser Interference Lithography. Advanced Optical Materials, 2014, 2, 1050-1056.	3.6	49
156	Near-Unity Light Absorption in a Monolayer WS₂ Van der Waals Heterostructure Cavity. Nano Letters, 2020, 20, 3545-3552.	4.5	48
157	Ultrafast nonlinear subwavelength solid immersion spectroscopy at T=8â€ŠK. Applied Physics Letters, 1999, 74, 1791-1793.	1.5	47
158	Fabrication method for microscopic vapor cells for alkali atoms. Optics Letters, 2010, 35, 1950.	1.7	47
159	Near- and Far-Field Properties of Plasmonic Oligomers under Radially and Azimuthally Polarized Light Excitation. ACS Nano, 2014, 8, 4969-4974.	7.3	47
160	Highly Sensitive Refractive Index Sensors with Plasmonic Nanoantennasâ^'Utilization of Optimal Spectral Detuning of Fano Resonances. ACS Sensors, 2018, 3, 960-966.	4.0	47
161	The optical gain mechanism in solid conjugated polymers. Applied Physics Letters, 1998, 72, 2933-2935.	1.5	46
162	Tapering fibers with complex shape. Optics Express, 2010, 18, 3426.	1.7	46

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163	Group velocity dispersion of tapered fibers immersed in different liquids. Optics Express, 2004, 12, 1700.	1.7	45
164	In Vitro Monitoring Conformational Changes of Polypeptide Monolayers Using Infrared Plasmonic Nanoantennas. Nano Letters, 2019, 19, 1-7.	4.5	45
165	Vibrational Sensing Using Infrared Nanoantennas: Toward the Noninvasive Quantitation of Physiological Levels of Glucose and Fructose. ACS Sensors, 2019, 4, 1973-1979.	4.0	45
166	Milliwatt-level mid-infrared (105â€“165 Î¼m) difference frequency generation with a femtosecond dual-signal-wavelength optical parametric oscillator. Optics Letters, 2012, 37, 3513.	1.7	44
167	Coherent nonlinear pulse propagation on a free-exciton resonance in a semiconductor. Physical Review B, 2001, 64, .	1.1	43
168	Lorentz model for metamaterials: Optical frequency resonance circuits. Physical Review B, 2007, 75, .	1.1	43
169	Analytical Model of the Three-Dimensional Plasmonic Ruler. ACS Nano, 2012, 6, 1291-1298.	7.3	43
170	Long-term stability of capped and buffered palladium-nickel thin films and nanostructures for plasmonic hydrogen sensing applications. Optical Materials Express, 2013, 3, 194.	1.6	43
171	Low-Cost Hydrogen Sensor in the ppm Range with Purely Optical Readout. ACS Sensors, 2020, 5, 978-983.	4.0	43
172	Enhanced transmission of periodic, quasiperiodic, and random nanoaperture arrays. Applied Physics Letters, 2007, 91, .	1.5	42
173	Laser emission from a solid conjugated polymer:â€ƒGain, tunability, and coherence. Physical Review B, 1998, 57, R4218-R4221.	1.1	41
174	Selective suppression of extinction within the plasmon resonance of gold nanoparticles. Applied Physics B: Lasers and Optics, 2001, 73, 311-316.	1.1	41
175	Evidence for bandedge lasing in a two-dimensional photonic bandgap polymer laser. Applied Physics Letters, 2002, 80, 734-736.	1.5	41
176	Light harvesting enhancement in solar cells with quasicrystalline plasmonic structures. Optics Express, 2013, 21, A363.	1.7	41
177	Interaction Effects between Magnetic and Chiral Building Blocks: A New Route for Tunable Magneto-chiral Plasmonic Structures. ACS Photonics, 2015, 2, 1272-1277.	3.2	41
178	Stitching-free 3D printing of millimeter-sized highly transparent spherical and aspherical optical components. Optical Materials Express, 2020, 10, 2370.	1.6	41
179	Tailored micro-optical freeform holograms for integrated complex beam shaping. Optica, 2020, 7, 1279.	4.8	41
180	Eleven Nanometer Alignment Precision of a Plasmonic Nanoantenna with a Self-Assembled GaAs Quantum Dot. Nano Letters, 2014, 14, 197-201.	4.5	40

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181	Analytical normalization of resonant states in photonic crystal slabs and periodic arrays of nanoantennas at oblique incidence. Physical Review B, 2017, 96, .	1.1	40
182	3D printed stacked diffractive microlenses. Optics Express, 2019, 27, 35621.	1.7	40
183	Photoluminescence decay dynamics in an InGaN/AlGaN/GaN doubleâ€heterostructure blueâ€lightâ€emitting diode. Applied Physics Letters, 1995, 67, 1515-1517.	1.5	39
184	Tunable ultrafast nonlinear optofluidic coupler. Optics Letters, 2012, 37, 1058.	1.7	39
185	Analytic Optimization of Near-Field Optical Chirality Enhancement. ACS Photonics, 2017, 4, 396-406.	3.2	39
186	Design Principles for Sensitivity Optimization in Plasmonic Hydrogen Sensors. ACS Sensors, 2020, 5, 917-927.	4.0	39
187	Efficient calculation of the optical properties of stacked metamaterials with a Fourier modal method. Journal of Optics, 2009, 11, 114019.	1.5	38
188	Sub-20-ps pulses from a passively Q-switched microchip laser at 1â€‰â€‰MHz repetition rate. Optics Letters, 2014, 39, 2940.	1.7	38
189	Ultrafast Nonlinear Plasmonic Spectroscopy: From Dipole Nanoantennas to Complex Hybrid Plasmonic Structures. ACS Photonics, 2016, 3, 1336-1350.	3.2	38
190	3D-printed miniature spectrometer for the visible range with a 100 Ã— 100 Î¼m² footprint. Light Advanced Manufacturing, 2021, 2, 20.	2.2	38
191	Three-dimensional direct laser written achromatic axicons and multi-component microlenses. Optics Letters, 2018, 43, 5837.	1.7	38
192	2D quasiperiodic plasmonic crystals. Scientific Reports, 2012, 2, 681.	1.6	36
193	Nonlinear refractive indices of nonlinear liquids: wavelength dependence and influence of retarded response. Applied Physics B: Lasers and Optics, 2014, 117, 803-816.	1.1	36
194	Mid-infrared Fourier-transform spectroscopy with a high-brilliance tunable laser source: investigating sample areas down to 5 Î¼m diameter. Optics Express, 2015, 23, 11105.	1.7	36
195	Large-area two-dimensional photonic crystals of metallic nanocylinders based on colloidal gold nanoparticles. Applied Physics Letters, 2007, 90, 133114.	1.5	35
196	Nanoscale Hydrogenography on Single Magnesium Nanoparticles. Nano Letters, 2018, 18, 4293-4302.	4.5	35
197	Quantum dot single-photon emission coupled into single-mode fibers with 3D printed micro-objectives. APL Photonics, 2020, 5, .	3.0	35
198	Femtosecond optical gain in strongly confined quantum dots. Optics Letters, 1996, 21, 1043.	1.7	34

#	Article	IF	Citations
199	Synthesis of transmission line models for metamaterial slabs at optical frequencies. Physical Review B, 2008, 78, .	1.1	34
200	Glimpsing the Weak Magnetic Field of Light. Science, 2009, 326, 529-530.	6.0	34
201	Probing the Near-Field of Second-Harmonic Light around Plasmonic Nanoantennas. Nano Letters, 2017, 17, 1931-1937.	4.5	34
202	Observation of the quantum confined ground state in InP quantum dots at 300 K. Applied Physics Letters, 1996, 68, 304-306.	1.5	33
203	Coherence of subsequent supercontinuum pulses generated in tapered fibers in the femtosecond regime. Optics Express, 2007, 15, 2732.	1.7	33
204	Thickness dependence of the optical properties of split-ring resonator metamaterials. Physica Status Solidi (B): Basic Research, 2007, 244, 1256-1261.	0.7	33
205	Plasmonic Analog of Electromagnetically Induced Absorption Leads to Giant Thin Film Faraday Rotation of 14Â°. Physical Review X, 2017, 7, .	2.8	33
206	Watching in situ the hydrogen diffusion dynamics in magnesium on the nanoscale. Science Advances, 2020, 6, eaaz0566.	4.7	33
207	Compact multi-Watt picosecond coherent white light sources using multiple-taper fibers. Optics Express, 2005, 13, 1734.	1.7	32
208	Thermal lensing in an end-pumped Yb:KGW slab laser with high power single emitter diodes. Optics Express, 2008, 16, 6041.	1.7	32
209	Highly confined in-plane propagating exciton-polaritons on monolayer semiconductors. 2D Materials, 2020, 7, 035031.	2.0	32
210	The dynamics of gain-narrowing in a ladder-type Ï€-conjugated polymer. Chemical Physics Letters, 1999, 312, 376-384.	1.2	31
211	Mode and group velocity dispersion evolution in the tapered region of a single-mode tapered fiber. Optics Express, 2004, 12, 5840.	1.7	31
212	Interaction between localized and delocalized surface plasmon polariton modes in a metallic photonic crystal. Physica Status Solidi (B): Basic Research, 2006, 243, 2344-2348.	0.7	31
213	Optical switching in metallic photonic crystal slabs with photoaddressable polymers. Applied Physics B: Lasers and Optics, 2006, 82, 543-547.	1.1	31
214	Optical transmission through subwavelength hole arrays in ultrathin metal films. Physical Review B, 2011, 84, .	1.1	31
215	Emission properties of an oscillating point dipole from a gold Yagi-Uda nanoantenna array. Physical Review B, 2012, 85, .	1.1	31
216	Diamond nanophotonics. Beilstein Journal of Nanotechnology, 2012, 3, 895-908.	1.5	31

#	Article	IF	Citations
217	Sensitivity engineering in direct contact palladium-gold nano-sandwich hydrogen sensors [Invited]. Optical Materials Express, 2015, 5, 2525.	1.6	31
218	Merging transformation optics with electron-driven photon sources. Nature Communications, 2019, 10, 599.	5.8	31
219	Metallodielectric photonic crystal superlattices: Influence of periodic defects on transmission properties. Physical Review B, 2006, 73, .	1.1	30
220	Optical properties of metallic meanders. Journal of the Optical Society of America B: Optical Physics, 2009, 26, B111.	0.9	30
221	Directing Light Emission from Quantum Dots. Science, 2010, 329, 910-911.	6.0	30
222	Broadly tunable femtosecond near- and mid-IR source by direct pumping of an OPA with a 417 MHz Yb:KGW oscillator. Optics Express, 2013, 21, 11516.	1.7	30
223	Linear and nonlinear optical properties of hybrid metallicâ€“dielectric plasmonic nanoantennas. Beilstein Journal of Nanotechnology, 2016, 7, 111-120.	1.5	30
224	Imaging and Steering Unidirectional Emission from Nanoantenna Array Metasurfaces. ACS Photonics, 2016, 3, 286-292.	3.2	30
225	Nanophotonic Chiral Sensing: How Does It Actually Work?. ACS Nano, 2022, 16, 2822-2832.	7.3	30
226	Single Plasmonic Oligomer Chiral Spectroscopy. Advanced Optical Materials, 2018, 6, 1800087.	3.6	29
227	Generalized retarded response of nonlinear media and its influence on soliton dynamics. Optics Express, 2011, 19, 2895.	1.7	28
228	Semiclassical Plexcitonics: Simple Approach for Designing Plexcitonic Nanostructures. Journal of Physical Chemistry C, 2014, 118, 23963-23969.	1.5	28
229	Multi-Watt femtosecond optical parametric master oscillator power amplifier at 43 MHz. Optics Express, 2015, 23, 23960.	1.7	28
230	Wavelength Scaling in Antenna-Enhanced Infrared Spectroscopy: Toward the Far-IR and THz Region. ACS Photonics, 2017, 4, 45-51.	3.2	28
231	Tailored nanocomposites for 3D printed micro-optics. Optical Materials Express, 2020, 10, 2345.	1.6	28
232	Investigation of the nonlinear optical properties of metamaterials by second harmonic generation. Applied Physics B: Lasers and Optics, 2011, 105, 149-162.	1.1	27
233	Watt-level optical parametric amplifier at 42 MHz tunable from 135 to 45 Î¼m coherently seeded with solitons. Optics Express, 2014, 22, 9567.	1.7	27
234	Synchronization-free all-solid-state laser system for stimulated Raman scattering microscopy. Light: Science and Applications, 2016, 5, e16149-e16149.	7.7	27

#	Article	IF	Citations
235	Niobium as Alternative Material for Refractory and Active Plasmonics. ACS Photonics, 2018, 5, 3298-3304.	3.2	27
236	Linear and nonlinear pulse propagation in a multiple-quantum-well photonic crystal. Physical Review B, 2004, 70, .	1.1	26
237	Adiabatically driven electron dynamics in a resonant photonic band gap: Optical switching of a Bragg periodic semiconductor. Physical Review B, 2004, 70, .	1.1	26
238	High-power widely tunable sub-20fs Gaussian laser pulses for ultrafast nonlinear spectroscopy. Optics Express, 2011, 19, 24354.	1.7	26
239	Temperature dependent two-photon photoluminescence of CH₃NH₃PbBr₃: structural phase and exciton to free carrier transition. Optical Materials Express, 2018, 8, 511.	1.6	26
240	Electrochemistry on Inverse Copper Nanoantennas: Active Plasmonic Devices with Extraordinarily Large Resonance Shift. ACS Photonics, 2019, 6, 1863-1868.	3.2	26
241	3D printed micro-optics for quantum technology: Optimised coupling of single quantum dot emission into a single-mode fibre. Light Advanced Manufacturing, 2021, 2, 103.	2.2	26
242	3D printed hybrid refractive/diffractive achromat and apochromat for the visible wavelength range. Optics Letters, 2021, 46, 2485.	1.7	26
243	Octave-wide photonic band gap in three-dimensional plasmonic Bragg structures and limitations of radiative coupling. Nature Communications, 2012, 3, 691.	5.8	25
244	Ultranarrow Second-Harmonic Resonances in Hybrid Plasmon-Fiber Cavities. Nano Letters, 2018, 18, 5576-5582.	4.5	25
245	Interaction of orbital angular momentum light with Rydberg excitons: Modifying dipole selection rules. Physical Review B, 2019, 100, .	1.1	25
246	Nonlinear Born-Kuhn Analog for Chiral Plasmonics. ACS Photonics, 2019, 6, 3306-3314.	3.2	25
247	Spectral hole burning in the gain region of an inverted semiconductor. Physical Review B, 1993, 48, 15472-15475.	1.1	24
248	Two-photon fluorescence and femtosecond two-photon absorption studies of MeLPPP, a ladder-type poly(phenylene) with low intra-chain disorder. Chemical Physics Letters, 1999, 313, 755-762.	1.2	24
249	Fabrication of two-dimensional hybrid photonic crystals utilizing electron beam lithography. Microelectronic Engineering, 2005, 78-79, 442-447.	1.1	24
250	High-power femtosecond mid-IR sources for s-SNOM applications. Journal of Optics (United Kingdom), 2014, 16, 094003.	1.0	24
251	Solitonic supercontinuum of femtosecond mid-IR pulses in W-type index tellurite fibers with two zero dispersion wavelengths. APL Photonics, 2016, 1, .	3.0	24
252	Alignment-free integration of apertures and nontransparent hulls into 3D-printed micro-optics. Optics Letters, 2018, 43, 5283.	1.7	24

#	Article	IF	Citations
253	1-GHz-repetition-rate femtosecond optical parametric oscillator. Applied Physics Letters, 2002, 80, 1873-1875.	1.5	23
254	Intra- and extra-cavity spectral broadening and continuum generation at 1.5??m using compact low-energy femtosecond Cr:YAG laser. Applied Physics B: Lasers and Optics, 2003, 77, 197-204.	1.1	23
255	Electromagnetic resonances in single and double split-ring resonator metamaterials in the near infrared spectral region. Physica Status Solidi (B): Basic Research, 2007, 244, 1251-1255.	0.7	23
256	Wurtzite-type CdS and CdSe epitaxial layers I. Growth and characterization. Journal of Crystal Growth, 1994, 141, 68-74.	0.7	22
257	Negative permeability around 630 nm in nanofabricated vertical meander metamaterials. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3886-3900.	0.8	22
258	Influence of the retarded response on an ultrafast nonlinear optofluidic fiber coupler. Optics Express, 2011, 19, 21673.	1.7	22
259	Positioning plasmonic nanostructures on single quantum emitters. Physica Status Solidi (B): Basic Research, 2012, 249, 678-686.	0.7	22
260	Hole-mask colloidal nanolithography combined with tilted-angle-rotation evaporation: A versatile method for fabrication of low-cost and large-area complex plasmonic nanostructures and metamaterials. Beilstein Journal of Nanotechnology, 2014, 5, 577-586.	1.5	22
261	Subfemtosecond and Nanometer Plasmon Dynamics with Photoelectron Microscopy: Theory and Efficient Simulations. ACS Photonics, 2017, 4, 2461-2469.	3.2	22
262	Arrays of individually controllable optical tweezers based on 3D-printed microlens arrays. Optics Express, 2020, 28, 8640.	1.7	22
263	Electron-driven photon sources for correlative electron-photon spectroscopy with electron microscopes. Nanophotonics, 2020, 9, 4381-4406.	2.9	22
264	Excitation beyond the monochromatic laser limit: simultaneous 3-D confocal and multiphoton microscopy with a tapered fiber as white-light laser source. Journal of Biomedical Optics, 2005, 10, 054009.	1.4	21
265	Au Nanotip as Luminescent Near-Field Probe. Nano Letters, 2013, 13, 3566-3570.	4.5	21
266	Shaping the Color and Angular Appearance of Plasmonic Metasurfaces with Tailored Disorder. ACS Nano, 2021, 15, 10318-10327.	7.3	21
267	Ultra-compact 3D-printed wide-angle cameras realized by multi-aperture freeform optical design. Optics Express, 2022, 30, 707.	1.7	21
268	3Dâ€Printed Micro Lensâ€inâ€Lens for In Vivo Multimodal Microendoscopy. Small, 2022, 18, e2107032.	5.2	21
269	Ultrafast time-resolved spectroscopy of one-dimensional metal-dielectric photonic crystals. Physical Review B, 2009, 79, .	1.1	20
270	Compact laser source for high-power white-light and widely tunable sub 65 fs laser pulses. Optics Letters, 2010, 35, 3961.	1.7	20

#	Article	IF	Citations
271	Pushing Down the Limit: In Vitro Detection of a Polypeptide Monolayer on a Single Infrared Resonant Nanoantenna. ACS Photonics, 2019, 6, 2636-2642.	3.2	20
272	Nanoscale Bouligand Multilayers: Giant Circular Dichroism of Helical Assemblies of Plasmonic 1D Nano-Objects. ACS Nano, 2021, 15, 13653-13661.	7.3	20
273	Numerical optimization of single-mode fiber-coupled single-photon sources based on semiconductor quantum dots. Optics Express, 2022, 30, 15913.	1.7	20
274	Tailoring the soliton and supercontinuum dynamics by engineering the profile of tapered fibers. Optics Express, 2010, 18, 20151.	1.7	19
275	Two-color femtosecond optical parametric oscillator with 17ÂW output pumped by a 74ÂW Yb:KGW laser. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1344.	0.9	19
276	Design of high-transmission metallic meander stacks with different grating periodicities for subwavelength-imaging applications. Optics Express, 2011, 19, 3627.	1.7	19
277	Spatial solitons in optofluidic waveguide arrays with focusing ultrafast Kerr nonlinearity. Optics Letters, 2012, 37, 2454.	1.7	19
278	Repetitive Holeâ€Mask Colloidal Lithography for the Fabrication of Largeâ€Area Lowâ€Cost Plasmonic Multishape Singleâ€Layer Metasurfaces. Advanced Optical Materials, 2015, 3, 680-686.	3.6	19
279	Nanoantenna-Enhanced Infrared Spectroscopic Chemical Imaging. ACS Sensors, 2017, 2, 655-662.	4.0	19
280	Quantum confined Rydberg excitons in reduced dimensions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 024001.	0.6	19
281	Waveguide-plasmon polaritons in photonic crystal slabs with metal nanowires. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 795-800.	0.8	18
282	Lorentz Nonreciprocal Model for Hybrid Magnetoplasmonics. Physical Review Letters, 2016, 117, 063901.	2.9	18
283	Electrons Generate Self-Complementary Broadband Vortex Light Beams Using Chiral Photon Sieves. Nano Letters, 2020, 20, 5975-5981.	4.5	18
284	Distortion-free multi-element Hypergon wide-angle micro-objective obtained by femtosecond 3D printing. Optics Letters, 2020, 45, 2784.	1.7	18
285	CuI microcrystallites embedded in a glass matrix. Semiconductor Science and Technology, 1991, 6, 401-404.	1.0	17
286	Shift of the excitonic resonances by thermal strain and lattice mismatch in CdS thin epitaxial layers. Journal of Crystal Growth, 1992, 125, 384-387.	0.7	17
287	Dephasing in the gain region of IIâ€“VI semiconductor nanocrystals. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 1039.	0.9	17
288	Efficient intracavity generation of visible pulses in a femtosecond near-infrared optical parametric oscillator. Optics Letters, 2001, 26, 2005.	1.7	17

#	Article	IF	Citations
289	Phase Evolution of Solitonlike Optical Pulses during Excitonic Rabi Flopping in a Semiconductor. Physical Review Letters, 2005, 94, 057406.	2.9	17
290	Femtosecond 5-W Yb:KGW slab laser oscillator pumped byÂaÂsingle broad-area diode and its application asÂsupercontinuum source. Applied Physics B: Lasers and Optics, 2009, 96, 5-10.	1.1	17
291	Strong resonant mode coupling of Fabryâ€“Perot and grating resonances in stacked two-layer systems. Photonics and Nanostructures - Fundamentals and Applications, 2011, 9, 390-397.	1.0	17
292	Optical properties of two-dimensional quasicrystalline plasmonic arrays. Physical Review B, 2011, 84, .	1.1	17
293	Tunable s-SNOM for Nanoscale Infrared Optical Measurement of Electronic Properties of Bilayer Graphene. ACS Photonics, 2021, 8, 418-423.	3.2	17
294	Diode-pumped, ultrafast, multi-octave supercontinuum source at repetition rates between 500 kHz and 20 MHz using Yb:glass lasers and tapered fibers. Optics Express, 2005, 13, 1477.	1.7	16
295	Chirp-controlled soliton fission in tapered optical fibers. Applied Physics B: Lasers and Optics, 2006, 83, 37-42.	1.1	16
296	Mode coupling and interaction in a plasmonic microcavity with resonant mirrors. Physical Review B, 2011, 84, .	1.1	16
297	Coupling strength of complex plasmonic structures in the multiple dipole approximation. Optics Express, 2011, 19, 22156.	1.7	16
298	Metalâ€“dielectric photonic crystal superlattice: 1D and 2D models and empty lattice approximation. Physica B: Condensed Matter, 2012, 407, 4037-4042.	1.3	16
299	Preparation and characterization of a large mode area liquid-filled photonic crystal fiber: transition from isolated to coupled spatial modes. Applied Physics B: Lasers and Optics, 2012, 106, 521-527.	1.1	16
300	Plasmonic oligomers in cylindrical vector light beams. Beilstein Journal of Nanotechnology, 2013, 4, 57-65.	1.5	16
301	Nonlinear optics of complex plasmonic structures: linear and third-order optical response of orthogonally coupled metallic nanoantennas. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	16
302	Wavelength-Dependent Third-Harmonic Generation in Plasmonic Gold Nanoantennas: Quantitative Determination of the d-Band Influence. ACS Photonics, 2018, 5, 1863-1870.	3.2	16
303	Resonant Plasmonic Nanoslits Enable in Vitro Observation of Single-Monolayer Collagen-Peptide Dynamics. ACS Sensors, 2019, 4, 1966-1972.	4.0	16
304	Utilizing niobium plasmonic perfect absorbers for tunable near- and mid-IR photodetection. Optics Express, 2019, 27, 25012.	1.7	16
305	Tunable green lasing from circular grating distributed feedback based on CH₃NH₃PbBr₃ perovskite. Optical Materials Express, 2019, 9, 2006.	1.6	16
306	Carrier dephasing in the gain region of an inverted semiconductor. Physical Review B, 1994, 50, 17647-17650.	1.1	15

#	Article	IF	Citations
307	Blue-green laser emission from a solid conjugated polymer. Solid State Communications, 1997, 104, 759-762.	0.9	15
308	Polarized Photoluminescence and Spectral Narrowing in an Oriented Polyfluorene Thin Film. ChemPhysChem, 2000, 1, 142-146.	1.0	15
309	Atomic dynamics in single and multi-photon double ionization: An experimental comparison. Optics Express, 2001, 8, 368.	1.7	15
310	Plasmonic antennas, positioning, and coupling of individual quantum systems. Physica Status Solidi (B): Basic Research, 2012, 249, 666-677.	0.7	15
311	Ultrafast Spectroscopy of Quantum Confined States in a Single CdSe Nanowire. Nano Letters, 2013, 13, 1706-1710.	4.5	15
312	Compact, low-noise, all-solid-state laser system for stimulated Raman scattering microscopy. Optics Letters, 2015, 40, 593.	1.7	15
313	Narrowband cw injection seeded high power femtosecond double-pass optical parametric generator at 43 MHz: Gain and noise dynamics. Optics Express, 2016, 24, 19558.	1.7	15
314	Coupling a single solid-state quantum emitter to an array of resonant plasmonic antennas. Scientific Reports, 2018, 8, 3415.	1.6	15
315	Electrically switchable metasurface for beam steering using PEDOT polymers. Journal of Optics (United Kingdom), 2020, 22, 124001.	1.0	15
316	Mirror-dispersion-compensated femtosecond optical parametric oscillator. Optics Communications, 1997, 141, 229-236.	1.0	14
317	Polarization scramblers with plasmonic meander-type metamaterials. Optics Express, 2012, 20, 22700.	1.7	14
318	Retardation-induced phase singularities in coupled plasmonic oscillators. Physical Review B, 2015, 91, .	1.1	14
319	Experimental long-term survey of mid-infrared supercontinuum source based on As2S3 suspended-core fibers. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	14
320	Nearly diffraction limited FTIR mapping using an ultrastable broadband femtosecond laser tunable from 133 to 8 Âµm. Optics Express, 2017, 25, 32355.	1.7	14
321	Tailoring the plasmonic Fano resonance in metallic photonic crystals. Nanophotonics, 2020, 9, 523-531.	2.9	14
322	Four-wave mixing based on cascaded second-order nonlinear processes in a femtosecond optical parametric oscillator operating near degeneracy. Applied Physics B: Lasers and Optics, 2004, 79, 441-447.	1.1	13
323	Dynamics and dephasing of plasmon polaritons in metallic photonic crystal superlattices: Time- and frequency-resolved nonlinear autocorrelation measurements and simulations. Physical Review B, 2007, 76, .	1.1	13
324	Analysis of metamaterials using transmission line models. Applied Physics B: Lasers and Optics, 2007, 86, 425-429.	1.1	13

#	Article	IF	Citations
325	Plasmon hybridization in stacked metallic nanocups. Optical Materials Express, 2012, 2, 1384.	1.6	13
326	Unbiased All-Optical Random-Number Generator. Physical Review X, 2017, 7, .	2.8	13
327	Spatiotemporal Analysis of an Efficient Fresnel Grating Coupler for Focusing Surface Plasmon Polaritons. ACS Photonics, 2019, 6, 600-604.	3.2	13
328	Interaction of edge exciton polaritons with engineered defects in the hyperbolic material Bi2Se3. Communications Materials, 2021, 2, .	2.9	13
329	Disorder issues in metallic photonic crystals. Physica Status Solidi (B): Basic Research, 2006, 243, 2331-2343.	0.7	12
330	Tailoring the ultrafast dynamics of the magnetic mode in magnetic photonic crystals. Physical Review B, 2010, 81, .	1.1	12
331	Transient Reflection: A Versatile Technique for Ultrafast Spectroscopy of a Single Quantum Dot in Complex Environments. Nano Letters, 2012, 12, 453-457.	4.5	12
332	Ultra-Broadband and Omnidirectional Perfect Absorber Based on Copper Nanowire/Carbon Nanotube Hierarchical Structure. ACS Photonics, 2020, 7, 366-374.	3.2	12
333	Optical properties of niobium nitride plasmonic nanoantennas for the near- and mid-infrared spectral range. Optical Materials Express, 2020, 10, 2597.	1.6	12
334	Atomic layer deposition of conformal anti-reflective coatings on complexâ€‰3D printed micro-optical systems. Optical Materials Express, 2022, 12, 2063.	1.6	12
335	Conjugated polymer lasers: emission characteristics and gain mechanism. Physical Chemistry Chemical Physics, 1999, 1, 1795-1800.	1.3	11
336	Transition between different coherent lightâ€“matter interaction regimes analyzed by phase-resolved pulse propagation. Optics Letters, 2005, 30, 1384.	1.7	11
337	Compact and cost-effective scheme for THz generation via optical rectification in GaP and GaAs using novel fs laser oscillators. Applied Physics B: Lasers and Optics, 2011, 103, 45-50.	1.1	11
338	Stable MHz-repetition-rate passively Q-switched microchip laser frequency doubled by MgO:PPLN. Applied Physics B: Lasers and Optics, 2013, 112, 231-239.	1.1	11
339	Optimizing magnesium thin films for optical switching applications: rules and recipes. Optical Materials Express, 2020, 10, 1346.	1.6	11
340	Microscopic 3D printed optical tweezers for atomic quantum technology. Quantum Science and Technology, 2022, 7, 045011.	2.6	11
341	Wurtzite CdSe grown by hot-wall epitaxy. Journal of Crystal Growth, 1993, 126, 505-509.	0.7	10
342	Gain in Strongly Confined Quantum Dots. Optics and Photonics News, 1995, 6, 34.	0.4	10

#	Article	IF	Citations
343	Waveguide Plasmon Polaritons in Metalâ€“Dielectric Photonic Crystal Slabs. Physics of the Solid State, 2005, 47, 145.	0.2	10
344	Polariton bandstructure of disordered metallic photonic crystal slabs. Physica Status Solidi (B): Basic Research, 2007, 244, 1262-1269.	0.7	10
345	Nonlinear photonics with metallic nanostructures on top of dielectrics and waveguides. Applied Physics B: Lasers and Optics, 2011, 105, 51-65.	1.1	10
346	Ultrabroadband chirped pulse second-harmonic spectroscopy: measuring the frequency-dependent second-order response of different metal films. Optics Letters, 2014, 39, 5293.	1.7	10
347	Optical properties of aperiodic metallic photonic crystal structures: quasicrystals and disorder. Journal of Optics (United Kingdom), 2014, 16, 114001.	1.0	10
348	Plasmonâ€“Polaron Coupling in Conjugated Polymer on Infrared Nanoantennas. Nano Letters, 2015, 15, 5382-5387.	4.5	10
349	Mathematical Modeling of a Plasmonic Palladium-Based Hydrogen Sensor. IEEE Sensors Journal, 2018, 18, 1946-1959.	2.4	10
350	Optical Carbon Dioxide Detection in the Visible Down to the Single Digit ppm Range Using Plasmonic Perfect Absorbers. ACS Sensors, 2020, 5, 2628-2635.	4.0	10
351	Tailored Optical Functionality by Combining Electronâ€Beam and Focused Goldâ€Ion Beam Lithography for Solid and Inverse Coupled Plasmonic Nanostructures. Advanced Optical Materials, 2020, 8, 2000879.	3.6	10
352	Femtosecond Fieldâ€Driven Onâ€Chip Unidirectional Electronic Currents in Nonadiabatic Tunneling Regime. Laser and Photonics Reviews, 2021, 15, 2000475.	4.4	10
353	Nonlinear Polariton Pulse Propagation in Bulk Semiconductors. Physica Status Solidi (B): Basic Research, 2000, 221, 453-457.	0.7	9
354	Compact portable 20 MHz solid-state femtosecond whitelight-laser. Optics Express, 2006, 14, 10913.	1.7	9
355	Manipulation of supercontinuum generation by stimulated cascaded four-wave mixing in tapered fibers. Applied Physics B: Lasers and Optics, 2008, 92, 159-163.	1.1	9
356	Hybrid Organic-Plasmonic Nanoantennas with Enhanced Third-Harmonic Generation. ACS Omega, 2017, 2, 2577-2582.	1.6	9
357	Selective Autonomous Molecular Transport and Collection by Hydrogelâ€Embedded Supramolecular Chemical Gradients. Angewandte Chemie - International Edition, 2019, 58, 18165-18170.	7.2	9
358	Emission spectroscopy of NaYF₄:Eu nanorods optically trapped by Fresnel lens fibers. Photonics Research, 2022, 10, 332.	3.4	9
359	Bandwidth enhancement of a shear-force-controlled distance regulation in near-field microscopy. Journal of Applied Physics, 1999, 86, 100-106.	1.1	8
360	Femtosecond near-IR optical parametric oscillator with efficient intracavity generation of visible light. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 2479.	0.9	8

#	Article	IF	Citations
361	Tailoring the photonic band splitting in metallodielectric photonic crystal superlattices. Physical Review B, 2011, 84, .	1.1	8
362	Adaptive Method for Quantitative Estimation of Glucose and Fructose Concentrations in Aqueous Solutions Based on Infrared Nanoantenna Optics. Sensors, 2019, 19, 3053.	2.1	8
363	Nonlinear Spectroscopy on the Plasmonic Analog of Electromagnetically Induced Absorption: Revealing Minute Structural Asymmetries. ACS Photonics, 2019, 6, 2850-2859.	3.2	8
364	Multiphoton Photoluminescence in Hybrid Plasmonâ€“Fiber Cavities with Au and Au@Pd Nanobipyramids: Two-Photon versus Four-Photon Processes and Rapid Quenching. ACS Photonics, 2021, 8, 2088-2094.	3.2	8
365	Femtosecond tunable light source with variable repetition rate between 640 kHz and 41â€...MHz with a 130â€...dB temporal pulse contrast ratio. Optics Express, 2022, 30, 1.	1.7	8
366	Giant Second Harmonic Generation Enhancement in a High-Q Doubly Resonant Hybrid Plasmonâ€“Fiber Cavity System. ACS Nano, 2021, 15, 19409-19417.	7.3	8
367	Quantumâ€Confined Electronâ€“Hole Droplets. Physica Status Solidi (B): Basic Research, 1992, 173, 389-396.	0.7	7
368	Dephasing processes in IIâ€“VI quantum dots. Physica Status Solidi (B): Basic Research, 1995, 188, 221-227.	0.7	7
369	Theoretical study of solitonlike propagation of picosecond light pulses interacting with Wannier excitons. Physical Review E, 1998, 58, 1074-1080.	0.8	7
370	Pulse characteristics of an optical parametric oscillator pumped by sub-30-fs light pulses. Optics Letters, 2000, 25, 1055.	1.7	7
371	Influence of near-resonant self-phase modulation on pulse propagation in semiconductors. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 1360.	0.9	7
372	Femtosecond properties of photorefractive polymers. Applied Physics B: Lasers and Optics, 2009, 95, 31-35.	1.1	7
373	Regression Methods for Ophthalmic Glucose Sensing Using Metamaterials. Journal of Electrical and Computer Engineering, 2011, 2011, 1-12.	0.6	7
374	Plasmonic Absorbers: A Switchable Midâ€Infrared Plasmonic Perfect Absorber with Multispectral Thermal Imaging Capability (Adv. Mater. 31/2015). Advanced Materials, 2015, 27, 4526-4526.	11.1	7
375	Fresnel lens optical fiber tweezers to evaluate the vitality of single algae cells. Optics Letters, 2022, 47, 170.	1.7	7
376	Machine Learning Methods of Regression for Plasmonic Nanoantenna Glucose Sensing. Sensors, 2022, 22, 7.	2.1	7
377	Predicting Laser-Induced Colors of Random Plasmonic Metasurfaces and Optimizing Image Multiplexing Using Deep Learning. ACS Nano, 2022, 16, 9410-9419.	7.3	7
378	Quantum dots in the strong confinement regime: a model system for gain in quasi zero-dimensional semiconductors. Chemical Physics, 1996, 210, 71-78.	0.9	6

#	Article	IF	Citations
379	Coherent High-Intensity Pulse Propagation on a Free Exciton Resonance in a Semiconductor. Physica Status Solidi (B): Basic Research, 1998, 206, 27-36.	0.7	6
380	A Tunable Blue-Green Laser from a Solid Conjugated Polymer. Physica Status Solidi (B): Basic Research, 1998, 206, 437-441.	0.7	6
381	Ultrafast nonlinear gain dynamics in semiconductor nanocrystals. Phase Transitions, 1999, 68, 59-94.	0.6	6
382	Longitudinal capacitance design for optical left-handed metamaterials. Physica Status Solidi (B): Basic Research, 2007, 244, 1243-1250.	0.7	6
383	Compact 7.4 W femtosecond oscillator for white-light generation and nonlinear microscopy. , 2011, , .		6
384	Combining cw-seeding with highly nonlinear fibers in a broadly tunable femtosecond optical parametric amplifier at 42â€‰â€‰MHz. Optics Letters, 2014, 39, 4851.	1.7	6
385	Selective Autonomous Molecular Transport and Collection by Hydrogelâ€Embedded Supramolecular Chemical Gradients. Angewandte Chemie, 2019, 131, 18333-18338.	1.6	6
386	Measuring Molecular Diffusion Through Thin Polymer Films with Dual-Band Plasmonic Antennas. ACS Nano, 2021, 15, 10393-10405.	7.3	6
387	XFROG â€" A New Method for Amplitude and Phase Characterization of Weak Ultrashort Pulses. Physica Status Solidi (B): Basic Research, 1998, 206, 119-124.	0.7	6
388	Mass-producible micro-optical elements by injection compression molding and focused ion beam structured titanium molding tools. Optics Letters, 2020, 45, 1184.	1.7	6
389	Dynamic tailoring of an optical skyrmion lattice in surface plasmon polaritons: comment. Optics Express, 2020, 28, 33614.	1.7	6
390	Coherent propagation at high intensities on a free exciton resonance in a semiconductor: self-induced transmission. Superlattices and Microstructures, 1999, 26, 103-115.	1.4	5
391	High-intensity pulse propagation in semiconductors: on-resonant self-induced transmission and effects in the continuum. Optics Express, 1999, 4, 121.	1.7	5
392	Separating different contributions to the shear force in near-field microscopy. Journal of Microscopy, 2001, 202, 176-181.	0.8	5
393	Plasmon polaritons in a metallic photonic crystal slab. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 1393-1396.	0.8	5
394	Phase-resolved pulse propagation through metallic photonic crystal slabs: plasmonic slow light. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160065.	1.6	5
395	Niobium nitride plasmonic perfect absorbers for tunable infrared superconducting nanowire photodetection. Optics Express, 2021, 29, 17087.	1.7	5
396	Ultrafast transient gain in type II multiple quantum wells. Applied Physics Letters, 1996, 68, 511-513.	1.5	4

#	Article	IF	Citations
397	Carrier Dynamics in Stacked InP/GaInP Quantum Dots. Physica Status Solidi (B): Basic Research, 2000, 221, 59-63.	0.7	4
398	Femtosecond Differential Transmission Spectroscopy of Î±-Sexithienyl Single Crystals at Low Temperature. Journal of Physical Chemistry B, 2000, 104, 12210-12214.	1.2	4
399	Femtosecond Differential Transmission Spectroscopy of Î±-Sexithienyl Thin Film at Low Temperature. Journal of Physical Chemistry B, 2000, 104, 6536-6540.	1.2	4
400	Towards the Origin of the Shear Force in Near-Field Microscopy. Japanese Journal of Applied Physics, 2001, 40, 813-818.	0.8	4
401	Electromagnetic induction in metamaterials. Applied Physics B: Lasers and Optics, 2008, 93, 107-110.	1.1	4
402	Resonant multimeanderâ€metasurfaces: A model system for superlenses and communication devices. Physica Status Solidi (B): Basic Research, 2012, 249, 1415-1421.	0.7	4
403	Ultrafast coherent spectroscopy of a single selfâ€assembled quantum dot. Physica Status Solidi (B): Basic Research, 2012, 249, 721-730.	0.7	4
404	The optimal antenna for nonlinear spectroscopy of weakly and strongly scattering nanoobjects. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	4
405	Line-current model for deriving the wavelength scaling of linear and nonlinear optical properties of thin elongated metallic rod antennas. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 1482.	0.9	4
406	Comment on â€œEnantioselective Optical Trapping of Chiral Nanoparticles with Plasmonic Tweezersâ€. ACS Photonics, 2018, 5, 2533-2534.	3.2	4
407	Stimulated Raman Scattering Microscopy with an All-Optical Modulator. Physical Review Applied, 2019, 11, .	1.5	4
408	Alignment-free difference frequency light source tunable from 5 to 20â€…Âµm by mixing two independently tunable OPOs. Optics Express, 2020, 28, 11883.	1.7	4
409	Coherently broadened, high-repetition-rate laser for stimulated Raman scatteringâ€“spectroscopic optical coherence tomography. Optics Letters, 2019, 44, 291.	1.7	4
410	Highly miniaturized endoscopic spatial confocal point distance sensor. Optical Engineering, 2020, 59, 1.	0.5	4
411	Burst-mode femtosecond fiber-feedback optical parametric oscillator. Optics Letters, 2022, 47, 525.	1.7	4
412	Femtosecond differential transmission spectroscopy of Î±-sexithienyl thin film. Journal of Luminescence, 2000, 87-89, 736-738.	1.5	3
413	Atomphysik: Wenn Licht Atome in StÃ¼cke reiÃŸt: Elektronenkorrelationen in starken Feldern. Physik Journal, 2001, 57, 49-52.	0.1	3
414	Linear and nonlinear optical properties of strongly coupled metal nanoparticles. , 2006, , .		3

#	Article	IF	Citations
415	Optical properties of disordered metallic photonic crystal slabs. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3848-3861.	0.8	3
416	Fabrication of a fiber-based microcavity with spherical concave fiber tips. Applied Physics B: Lasers and Optics, 2010, 98, 707-710.	1.1	3
417	Metamaterials for optical and photonic applications for space: preliminary results. Proceedings of SPIE, 2011, , .	0.8	3
418	Design of plasmonic nanostructures for chiral sensing. , 2012, , .		3
419	Design, simulation and 3D printing of complex micro-optics for imaging. , 2016, , .		3
420	3D optical Yagi-Uda nanoantenna array. , 2010, , .		3
421	Influence of disorder on a Bragg microcavity. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 139.	0.9	3
422	Wurtzite-type CdS and CdSe epitaxial layers II. Nonlinear optical properties. Journal of Crystal Growth, 1994, 141, 75-80.	0.7	2
423	Nonlinear Absorption and Gain in CdSe and CdSSe Quantum Dots. Materials Science Forum, 1995, 182-184, 93-98.	0.3	2
424	Imaging the Internal Structure of Recording Marks on an Optical Disc by Internal Reflection Scanning Near-Field Optical Microscopy. Japanese Journal of Applied Physics, 1999, 38, L1463-L1465.	0.8	2
425	Pulse propagation in Bragg-resonant multiple quantum wells: from pulse breakup to compression. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 1484-1487.	0.8	2
426	Grating games. Nature Photonics, 2008, 2, 335-337.	15.6	2
427	Plasmonic EIT at the Drude damping limit. , 2009, , .		2
428	Optical hydrogen sensing with metallic photonic crystals and plasmonic metamaterials. , 2010, , .		2
429	Rigorous modeling of meander-type metamaterials for sub-lambda imaging. Proceedings of SPIE, 2011, , .	0.8	2
430	Sub-wavelength imaging using stacks of metallic meander structures with different periodicities. , 2011, , .		2
431	Transient absorption spectroscopy of a single lateral InGaAs quantum dot molecule. Physica Status Solidi (B): Basic Research, 2012, 249, 731-736.	0.7	2
432	Dynamic modeling of the hydrogel molecular filter in a metamaterial biosensing system for glucose concentration estimation. , 2014, 2014, 2081-4.		2

#	Article	IF	Citations
433	26ps pulses from a passively Q-switched microchip laser. , 2014, , .		2
434	Low drift cw-seeded high-repetition-rate optical parametric amplifier for fingerprint coherent Raman spectroscopy. Optics Express, 2016, 24, 22296.	1.7	2
435	Simple ps microchip Nd:YVO4laser with 3.3 ps pulses at 0.2 - 1.4 MHz and single-stage amplification to the microjoule level. , 2016, , .		2
436	Correction to Helical Plasmonic Nanostructures as Prototypical Chiral Near-Field Sources. ACS Photonics, 2016, 3, 2000-2002.	3.2	2
437	Microwave probing of bulk dielectrics using superconducting coplanar resonators in distant-flip-chip geometry. Review of Scientific Instruments, 2020, 91, 054702.	0.6	2
438	Mark Stockman: Evangelist for Plasmonics. ACS Photonics, 2021, 8, 683-698.	3.2	2
439	Liquid Hydrogenation of Plasmonic Nanoantennas via Alcohol Deprotonation. ACS Photonics, 2021, 8, 1810-1816.	3.2	2
440	Nonlinear Plasmon Optics. Nano-optics and Nanophotonics, 2015, , 155-181.	0.2	2
441	Plasmonic Gas and Chemical Sensing. NATO Science for Peace and Security Series C: Environmental Security, 2015, , 239-272.	0.1	2
442	Switchable Optical Nonlinearity at the Metal to Insulator Transition in Magnesium Thin Films. ACS Photonics, 2020, 7, 1560-1568.	3.2	2
443	Compact harmonic cavity optical parametric oscillator for optical parametric amplifier seeding. Optics Express, 2020, 28, 25000.	1.7	2
444	Femtosecond Transient Absorption Spectroscopy in Î±-sexithienyl thin films. Synthetic Metals, 1999, 101, 555-556.	2.1	1
445	Slow coherent polarization decay of waveguide-particle-plasmon-polaritons in metallic photonic crystal slabs. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 1412-1416.	0.8	1
446	Temporal and Spatial Pulse Compression in a Nonlinear Defocusing Material. Springer Series in Chemical Physics, 2005, , 19-21.	0.2	1
447	Optical Properties of Planar Metallo-Dielectric Photonic Crystals. , 2006, , 85-108.		1
448	Generation of white light laser radiation in tapered fibers. , 2006, 6190, 89.		1
449	Plasmonic EIT at the Drude Damping Limit. , 2009, , .		1
450	Calculation of complex shapes in the Fourier modal method through the concept of coordinate transformations. , 2009, , .		1

#	Article	IF	Citations
451	Fabrication of dielectric and metallo-dielectric 3D nanostructures by direct laser writing and electroless plating. , 2010, , .		1
452	Experimental demonstration of dispersion engineering through mode interactions in plasmonic microcavities. Proceedings of SPIE, 2012, , .	0.8	1
453	Noninvasive optical glucose monitoring at physiological levels using a functionalized plasmonic sensor. , 2013, , .		1
454	Tunable ultrafast nonlinear optofluidic coupler. EPJ Web of Conferences, 2013, 41, 12010.	0.1	1
455	Discrete wavelength selection for the optical readout of a metamaterial biosensing system for glucose concentration estimation via a support vector regression model. , 2015, 2015, 6421-4.		1
456	Simple ps microchip Nd:YVO4laser with 3.3-ps pulses at 0.2 to 1.4ÂMHz and single-stage amplification to the microjoule level. Optical Engineering, 2016, 55, 066126.	0.5	1
457	Hydrogen-regulated chiral nanoplasmonics. Proceedings of SPIE, 2016, , .	0.8	1
458	Refractive Index Estimation from Spectral Measurements of a Plasmonic Glucose Sensor and Wavelength Selection * *The project was funded by Baden-WÃ¼rttemberg Stiftung gGmbH. The authors would also like to thank MWK BW, ERC COMPLEX-PLAS and AvH Stiftung.. IFAC-PapersOnLine, 2017, 50, 4406-4411.	0.5	1
459	Modeling of pressure-composition isotherms and diffusion dynamics of a plasmonic palladium sensor for hydrogen detection. , 2017, , .		1
460	Nanophotonic Chiral Sensing: How Does it Actually Work?. , 2021, , .		1
461	Femtosecond Tunable Light Source with Variable Repetition Rate and Ultra-high Pulse Contrast Ratio. , 2021, , .		1
462	Electrically Switchable Metasurface for Beam Steering Using PEDOT Polymers. , 2021, , .		1
463	Coherent nonlinear pulse propagation on a free-exciton resonance in a semiconductor. , 2003, , 1-22.		1
464	Chirality-Sensitive Ultrafast Spectroscopy. , 2016, , .		1
465	Nanoantenna-enhanced gas sensing in a single tailored nanofocus. , 2011, , .		1
466	Sub-40â€‰fs optical parametric oscillator beyond the gain bandwidth limit. Optics Letters, 2022, 47, 3099.	1.7	1
467	Impurity-related photoluminescence from InGaN LED material. , 0, , .		0
468	High-intensity laser pulse propagation in semiconductors. Advances in Solid State Physics, 1999, , 483-493.	0.8	0

#	Article	IF	Citations
469	Observation of Phonon Resonances in the Optical Nonlinearity in an ?-Sexithienyl Thin Film. Physica Status Solidi (B): Basic Research, 2000, 221, 561-565.	0.7	0
470	32 fs KTP optical parametric oscillator with chirped mirrors. , 2000, , .		0
471	XFROGâ€"Cross-correlation Frequency-resolved Optical Gating. , 2000, , 313-322.		0
472	Time-resolved stimulated emission in an Î±-sexithienyl thin film. Synthetic Metals, 2001, 116, 49-51.	2.1	0
473	Efficient visible light generation in a femtosecond PPLN optical parametric oscillator using an uneven poling duty cycle. , 0, , .		0
474	1-GHz repetition-rate femtosecond optical parametric oscillator. , 0, , .		0
475	Extremely slow coherent polarization decay of waveguide- plasmon-polaritons in metallic photonic crystal slabs. , 2003, , .		0
476	Waveguide-plasmon polaritons in a 1D metallic photonic crystal slab. , 2003, , .		0
477	Coherence properties of white light continuum generation in tapered fibers in the fs and ps regime. , 0, , .		0
478	The influence of the disorder type on the optical properties of metallic photonic crystals. , 0, , .		0
479	Magnetic and electronic resonances for different metamaterial resonator geometries. , 2006, , .		0
480	Generation of white light laser radiation in tapered fibers. , 2006, , .		0
481	Controlling the coupling between localized and delocalized surface plasmon modes in a metallic photonic crystal slab. , 2006, , .		0
482	Nanoaperture based Metamaterials. , 2007, , TuB16.		0
483	Selectively filled hybrid ARROW fibers. , 2007, , .		0
484	Microfluidic photonic crystal nanocavities. , 2007, , .		0
485	Microfluidic cavities in photonic crystal waveguides. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
486	Conference Report: Metamaterials â€“ optical elements for the 21st centuryDPG Summer School, Bad Honnef, Germany, 17â€“22 September 2006. Physica Status Solidi (B): Basic Research, 2007, 244, 1167-1169.	0.7	0

#	Article	IF	Citations
487	Optical properties of a metallic meander Fabry-Perot cavity. , 2009, , .		0
488	Three-dimensional metallic metamaterials: Coupling matters. , 2009, , .		0
489	Index-near-zero properties of metallic meander structures. , 2009, , .		0
490	Quasicrystalline Metamaterials. , 2009, , .		0
491	Ultrafast coherent control of plasmon polaritons on the nanoscale. , 2009, , .		0
492	Tailoring polaritonic dephasing in magnetic photonic crystals. , 2009, , .		0
493	Three-dimensional metallic metamaterials: Coupling matters. , 2009, , .		0
494	Modelling of surface plasmon polaritons in a 2D superlattice. , 2009, , .		0
495	Coupling of self-assembled quantum dots to plasmonic nanoantennas. , 2009, , .		0
496	Mode hybridization and interaction in a metallic meander Fabry-Pe`rot cavity. , 2010, , .		0
497	Resonant mode coupling for deriving optical resonances in stacked grating structures. , 2010, , .		0
498	Novel plasmonic sensor design using plasmon-induced transparency. , 2010, , .		0
499	Three-dimensional optical metamaterials and nanoantennas: Chirality, Coupling, and Sensing. , 2010, , .		0
500	Plasmonic Sensor Based on Perfect Absorption. , 2010, , .		0
501	Towards unraveling the mechanism of third harmonic generation in plasmonic nanoantennas. , 2011, , .		0
502	Octave-wide Photonic Band Gap in Three-Dimensional Plasmonic Bragg Structures. , 2011, , .		0
503	Acceleration of Parameter Studies in the Fourier Modal Method by Introducing Lateral Shift Matrices. Journal of Computational and Theoretical Nanoscience, 2011, 8, 1625-1630.	0.4	0
504	Ein Plasmonenlineal vermisst Proteine. Physik in Unserer Zeit, 2011, 42, 266-267.	0.0	0

#	Article	IF	Citations
505	Towards 3D plasmon rulers. , 2011, , .		0
506	Compact and tunable sub-20 fs laser source for ultrafast nonlinear applications. , 2011, , .		0
507	Nanoantenna-enhanced ultrafast nonlinear spectroscopy of a single plasmonic nanodisc. , 2011, , .		0
508	From near-field to far-field: Radiative coupling of particle plasmon resonances in three-dimensional geometries. , 2011, , .		0
509	1.5 W output two-color femtosecond optical parametric oscillator pumped by a 7.4 W femtosecond Yb:KGW laser. , 2011, , .		0
510	Enhancing the photoluminescence properties of single epitaxial gaas quantum dots using optical antennas. , 2011, , .		0
511	From near-field to far-field: Radiative coupling of particle plasmon resonances in three-dimensional geometries. , 2011, , .		0
512	Application of the Discontinuous Galerkin Time Domain Method to the Optics of Bi-Chiral Plasmonic Crystals. , 2011, , .		0
513	2D metallic photonic quasicrystals. , 2012, , .		0
514	Modifying the emission of electric and magnetic dipoles with plasmonic split-ring resonators. , 2012, , .		0
515	Design and Fabrication of Helical Structures via Proximity-field Nano-Patterning (PnP) for Application as Chiral Metamaterials. , 2012, , .		0
516	Polarization scrambling with metallic meander structures for space applications. Proceedings of SPIE, 2012, , .	0.8	0
517	Optical phased array nanoantenna link. , 2013, , .		0
518	Direct mapping of plasmonic near-fields using infrared far-field vibrational spectroscopy. , 2013, , .		0
519	Sub 10-nm accuracy in positioning plasmonic nanostructures on self-assembled GaAs quantum dots. , 2013, , .		0
520	Broadly-tunable near- and mid-IR source by direct pumping of an OPA with a 42 MHz femtosecond multi-Watt Yb:KGW oscillator. , 2013, , .		0
521	Nanoantenna-enhanced mid-IR vibration spectroscopy with single molecular layer sensitivity. , 2013, , .		0
522	High-power high-repetition-rate mid-IR femtosecond laser sources for FTIR spectroscopy applications. , 2013, , .		0

#	Article	IF	Citations
523	Ultrafast dynamics of quantum confined carriers in a single CdSe nanowire. , 2013, , .		0
524	Plasmonically Enhanced Transverse Magneto-Optical Kerr Effect. , 2013, , .		0
525	Plasmonic gas and glucose sensing using resonant nanoantennas. , 2014, , .		0
526	Plasmonic Antennas: Largeâ€Area Antennaâ€Assisted SEIRA Substrates by Laser Interference Lithography (Advanced Optical Materials 11/2014). Advanced Optical Materials, 2014, 2, 1049-1049.	3.6	0
527	Fabrication of plasmonic nanoantennas by femtosecond direct laser writing lithography - effects of near field coupling on SEIRA enhancement. , 2015, , .		0
528	Short-range surface plasmonics and its (sub-)femtosecond dynamics. , 2016, , .		0
529	Das kleinste Endoskop der Welt per 3D-Druck. Physik in Unserer Zeit, 2016, 47, 214-215.	0.0	0
530	Laser spectroscopy with tunable ultrafast optical parametric light sources. , 2016, , .		0
531	Direct glimpse into the spatiotemporal dynamics of plasmonic vortices. , 2016, , .		0
532	High-power mid-infrared high repetition-rate supercontinuum source based on a chalcogenide step-index fiber. , 2016, , .		0
533	Spectroscopy of Graphene at the Saddle Point. , 2017, , 325-347.		0
534	3D printed complex microoptics: A new paradigm in optics manufacturing (Conference Presentation). , 2017, , .		0
535	Integrated approach to realize top hat focal field distributions. , 2017, , .		0
536	Innentitelbild: Selective Autonomous Molecular Transport and Collection by Hydrogelâ€Embedded Supramolecular Chemical Gradients (Angew. Chem. 50/2019). Angewandte Chemie, 2019, 131, 18046-18046.	1.6	0
537	Electron-Driven Photon Sources for Spectral Interferometry using Electron Microscopes. , 2019, , .		0
538	Topological plasmonics: Ultrafast vector movies of plasmonic skyrmions on the nanoscale. , 2021, , .		0
539	Quantum Dot Single-Photon Emission Coupled into Single-Mode Fibers with 3D Printed Micro-Objectives. , 2021, , .		0
540	Watching In Situ the Hydrogen Diffusion Dynamics in Magnesium on the Nanoscale. , 2021, , .		0

#	Article	IF	Citations
541	SEIRA Sensing of Different Sugars at Physiological Concentrations. , 2021, , .		0
542	3D Printed Hybrid Refractive/Diffractive Achromat and Apochromat for the Visible Wavelength Range. , 2021, , .		0
543	Alignment-Free Mid-IR Source Tunable From 5 to 20 Âµm by Mixing Two Independently Tunable OPOs. , 2021, , .		0
544	Superconducting NbN plasmonic perfect absorbers for tunable single photon near- and mid-IR photodetection. , 2021, , .		0
545	Robust and rapidly tunable light source for SRS/CARS microscopy with extremely low-intensity noise. , 2021, , .		0
546	Extraordinarily Strong Second Harmonic Generation Enhancement in Hybrid Plasmon-Fiber Cavity System. , 2021, , .		0
547	Stitching-free 3D printing of millimeter-sized highly transparent spherical and aspherical optical components. , 2021, , .		0
548	32 fs KTP Optical Parametric Oscillator with Chirped Mirrors. , 2000, , .		0
549	Ultrafast spatio-temporal dynamics in semiconductors. , 2001, , .		0
550	Double Ionization in Strong Fields: Ion Momenta and Correlated Electron Momenta. , 2001, , 15-23.		0
551	Spectrally and temporally resolved measurements of white light continuum generated in tapered fibers. , 2002, , .		0
552	Phase-resolved nonlinear propagation: Transition between coherent light-matter interaction regimes. , 2005, , .		0
553	Stereometamaterials. , 2008, , .		0
554	Ultrafast Coherent Control of Nonlinear Optical Processes in Plasmonic Nanostructures. , 2009, , .		0
555	Efficient And Simple High-Power Femtosecond Yb:KGW Slab-Laser Pumped By A Single Broad-Area Emitter Diode. , 2009, , .		0
556	Microcavity Plasmonics. , 2010, , .		0
557	Selectively Filled Photonic Crystal Fibers. , 2010, , .		0
558	Selectively Filled Photonic Crystal Fibers. , 2010, , .		0

#	Article	IF	Citations
559	Compact and widely tunable sub-50 fs laser source with 30 mW to 300 mW output power at 44 MHz repetition rate for nonlinear spectroscopy applications. , 2010, , .		0
560	Giant splitting of localized electric and magnetic plasmon modes in a photonic microcavity. , 2010, , .		0
561	Nanoantenna-enhanced ultrafast nonlinear spectroscopy of a single plasmonic nanodisc. , 2011, , .		0
562	1.5 W Output Two-Color Femtosecond Optical Parametric Oscillator Pumped by a 7.4 W Femtosecond Yb:KGW Laser. , 2011, , .		0
563	Plasmonic oligomers: the role of individual particles in collective behavior. , 2011, , .		0
564	Milliwatt-level Mid-infrared Difference Frequency Generation with a Femtosecond Dual-signal-wavelength Optical Parametric Oscillator. , 2012, , .		0
565	Third harmonic spectroscopy of complex plasmonic Fano structures. , 2013, , .		0
566	Quantitative mapping of plasmonic near-fields using infrared far-field vibrational spectroscopy. , 2013, , .		0
567	Highly compact, low-noise all-solid state laser system for stimulated Raman scattering microscopy. , 2014, , .		0
568	High-average-power, mid-infrared femtosecond optical parametric oscillator at 7 Âµm based on CdSiP2. , 2015, , .		0
569	Tunable all-optical modulation by period multiplication in a synchronously-pumped optical parametric oscillator. , 2015, , .		0
570	Highly compact, low-noise all-solid-state laser system for stimulated Raman scattering microscopy. , 2015, , .		0
571	Stimulated Raman Scattering Microscopy without EOM: Nonlinear All-Optical Modulator by Period Multiplication. , 2016, , .		0
572	Solitonic supercontinuum of fs mid-IR pulses in W-type index tellurite fibers with two zero dispersion wavelengths. , 2016, , .		0
573	Nonlinear Refractory Plasmonics with TiN Nanoantennas. , 2016, , .		0
574	Optical angular momentum dynamics - In the eyes of the beholder. , 2016, , .		0
575	Ultranarrowband cw injection-seeded femtosecond OPG for superior pulse-to-pulse stability and output power. , 2016, , .		0
576	Complex Micro-Optics by Femtosecond Direct Laser Writing. , 2017, , .		0

#	Article	IF	Citations
577	Compact see-through AR system using buried imaging fiber bundles. , 2018, , .		0
578	Concept for a highly miniaturized endoscopic point distance sensor. , 2019, , .		0
579	Extremely Efficient Light-Exciton Interaction in a Monolayer WS2 van der Waals Heterostructure Cavity. , 2020, , .		0
580	Micro-3D-printed multi-aperture freeform ultra-wide-angle systems: production, characterization, and correction. , 2022, , .		0
581	3Dâ€Printed Micro Lensâ€inâ€Lens for In Vivo Multimodal Microendoscopy (Small 17/2022). Small, 2022, 18, .	5.2	0