Harald Giessen

List of Publications by Year
in descending order

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581 papers	38,339 citations	3531 90 h-index	3407 183 g-index
593 all docs	593 docs citations	593 times ranked	23567 citing authors

#	Article	IF	Citations
1	The Fano resonance in plasmonic nanostructures and metamaterials. Nature Materials, 2010, 9, 707-715.	27.5	3,352
2	Infrared Perfect Absorber and Its Application As Plasmonic Sensor. Nano Letters, 2010, 10, 2342-2348.	9.1	2,513
3	Plasmonic analogue of electromagnetically induced transparency at the Drude damping limit. Nature Materials, 2009, 8, 758-762.	27.5	1,651
4	Planar Metamaterial Analogue of Electromagnetically Induced Transparency for Plasmonic Sensing. Nano Letters, 2010, 10, 1103-1107.	9.1	1,135
5	Nanoantenna-enhanced gas sensing in a single tailored nanofocus. Nature Materials, 2011, 10, 631-636.	27.5	863
6	Three-dimensional photonic metamaterials at optical frequencies. Nature Materials, 2008, 7, 31-37.	27.5	836
7	Stereometamaterials. Nature Photonics, 2009, 3, 157-162.	31.4	643
8	Two-photon direct laser writing of ultracompact multi-lens objectives. Nature Photonics, 2016, 10, 554-560.	31.4	641
9	Chiral plasmonics. Science Advances, 2017, 3, e1602735.	10.3	583
10	Transition from Isolated to Collective Modes in Plasmonic Oligomers. Nano Letters, 2010, 10, 2721-2726.	9.1	544
11	Waveguide-Plasmon Polaritons: Strong Coupling of Photonic and Electronic Resonances in a Metallic Photonic Crystal Slab. Physical Review Letters, 2003, 91, 183901.	7.8	534
12	Three-Dimensional Plasmon Rulers. Science, 2011, 332, 1407-1410.	12.6	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.	3.0	505
14	A Switchable Midâ€Infrared Plasmonic Perfect Absorber with Multispectral Thermal Imaging Capability. Advanced Materials, 2015, 27, 4597-4603.	21.0	487
15	Correlated electron emission in multiphoton double ionization. Nature, 2000, 405, 658-661.	27.8	482
16	Surface-Enhanced Infrared Spectroscopy Using Resonant Nanoantennas. Chemical Reviews, 2017, 117, 5110-5145.	47.7	457
17	Palladium-Based Plasmonic Perfect Absorber in the Visible Wavelength Range and Its Application to Hydrogen Sensing. Nano Letters, 2011, 11, 4366-4369.	9.1	385
18	Nonreciprocal plasmonics enables giant enhancement of thin-film Faraday rotation. Nature Communications, 2013, 4, 1599.	12.8	353

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19	Three-Dimensional Chiral Plasmonic Oligomers. Nano Letters, 2012, 12, 2542-2547.	9.1	342
20	Interpreting Chiral Nanophotonic Spectra: The Plasmonic Bornâ€“Kuhn Model. Nano Letters, 2013, 13, 6238-6243.	9.1	336
21	Beam switching and bifocal zoom lensing using active plasmonic metasurfaces. Light: Science and Applications, 2017, 6, e17016-e17016.	16.6	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.	1.5	302
23	Recoil-Ion Momentum Distributions for Single and Double Ionization of Helium in Strong Laser Fields. Physical Review Letters, 2000, 84, 443-446.	7.8	301
24	3D optical Yagiâ€“Uda nanoantenna array. Nature Communications, 2011, 2, 267.	12.8	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.	3.4	289
27	Coupling Effects in Optical Metamaterials. Angewandte Chemie - International Edition, 2010, 49, 9838-9852.	13.8	287
28	Active Chiral Plasmonics. Nano Letters, 2015, 15, 4255-4260.	9.1	271
29	Controlling the Interaction between Light and Gold Nanoparticles: Selective Suppression of Extinction. Physical Review Letters, 2001, 86, 4688-4691.	7.8	262
30	Large-Area 3D Chiral Plasmonic Structures. ACS Nano, 2013, 7, 6321-6329.	14.6	256
31	Plasmonic Oligomers: The Role of Individual Particles in Collective Behavior. ACS Nano, 2011, 5, 2042-2050.	14.6	255
32	Magnetoinductive and Electroinductive Coupling in Plasmonic Metamaterial Molecules. Advanced Materials, 2008, 20, 4521-4525.	21.0	253
33	Sub-micrometre accurate free-form optics by three-dimensional printing on single-mode fibres. Nature Communications, 2016, 7, 11763.	12.8	248
34	Cavity-enhanced localized plasmon resonance sensing. Applied Physics Letters, 2010, 97, .	3.3	242
35	Classical Analog of Electromagnetically Induced Absorption in Plasmonics. Nano Letters, 2012, 12, 1367-1371.	9.1	235
36	Tailoring Enhanced Optical Chirality: Design Principles for Chiral Plasmonic Nanostructures. Physical Review X, 2012, 2, .	8.9	227

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37	3D-printed eagle eye: Compound microlens system for foveated imaging. Science Advances, 2017, 3, e1602655.	10.3	227
38	Optical properties of planar metallic photonic crystal structures:â€ƒExperiment and theory. Physical Review B, 2004, 70, .	3.2	225
39	Revealing the subfemtosecond dynamics of orbital angular momentum in nanoplasmonic vortices. Science, 2017, 355, 1187-1191.	12.6	217
40	Plasmon Hybridization in Stacked Cutâ€Wire Metamaterials. Advanced Materials, 2007, 19, 3628-3632.	21.0	207
41	Ultrafast nonlinear optofluidics in selectively liquid-filled photonic crystal fibers. Optics Express, 2010, 18, 25232.	3.4	185
42	Babinetâ€™s principle for optical frequency metamaterials and nanoantennas. Physical Review B, 2007, 76, .	3.2	182
43	Threeâ€Dimensional Bichiral Plasmonic Crystals Fabricated by Direct Laser Writing and Electroless Silver Plating. Advanced Materials, 2011, 23, 3018-3021.	21.0	182
44	Helical Plasmonic Nanostructures as Prototypical Chiral Near-Field Sources. ACS Photonics, 2014, 1, 530-537.	6.6	179
45	The Role of Plasmon-Generated Near Fields for Enhanced Circular Dichroism Spectroscopy. ACS Photonics, 2016, 3, 578-583.	6.6	172
46	Thermodynamics of the hybrid interaction of hydrogen with palladium nanoparticles. Nature Materials, 2016, 15, 311-317.	27.5	170
47	Theoretical design of a liquid-core photonic crystal fiber for supercontinuum generation. Optics Express, 2006, 14, 6800.	3.4	163
48	Magnesium as Novel Material for Active Plasmonics in the Visible Wavelength Range. Nano Letters, 2015, 15, 7949-7955.	9.1	162
49	Resonances of split-ring resonator metamaterials in the near infrared. Applied Physics B: Lasers and Optics, 2006, 84, 219-227.	2.2	161
50	Periodic Largeâ€Area Metallic Splitâ€Ring Resonator Metamaterial Fabrication Based on Shadow Nanosphere Lithography. Small, 2009, 5, 400-406.	10.0	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.	9.1	155
52	Quantitative Modeling of the Third Harmonic Emission Spectrum of Plasmonic Nanoantennas. Nano Letters, 2012, 12, 3778-3782.	9.1	154
53	Plasmonic Building Blocks for Magnetic Molecules in Threeâ€Dimensional Optical Metamaterials. Advanced Materials, 2008, 20, 3859-3865.	21.0	152
54	Nonlinear Plasmonic Sensing. Nano Letters, 2016, 16, 3155-3159.	9.1	150

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55	Formation of chiral fields in a symmetric environment. Optics Express, 2012, 20, 26326.	3.4	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.	14.6	148
57	Microcavity plasmonics: strong coupling of photonic cavities and plasmons. Laser and Photonics Reviews, 2013, 7, 141-169.	8.7	145
58	Optical resonances of bowtie slot antennas and their geometry and material dependence. Optics Express, 2008, 16, 7756.	3.4	137
59	Phyllotaxis-inspired nanosieves with multiplexed orbital angular momentum. ELight, 2021, 1, .	23.9	132
60	Excitation and Tuning of Higher-Order Fano Resonances in Plasmonic Oligomer Clusters. ACS Nano, 2011, 5, 8202-8211.	14.6	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.	9.1	128
62	Metallic Photonic Crystals Based on Solution-Processible Gold Nanoparticles. Nano Letters, 2006, 6, 651-655.	9.1	126
63	Strong Enhancement of Second Harmonic Emission by Plasmonic Resonances at the Second Harmonic Wavelength. Nano Letters, 2015, 15, 3917-3922.	9.1	122
64	Nanoantenna-enhanced ultrafast nonlinear spectroscopy of a single gold nanoparticle. Nature Communications, 2011, 2, .	12.8	118
65	Refractive index measurements of photo-resists for three-dimensional direct laser writing. Optical Materials Express, 2017, 7, 2293.	3.0	118
66	Excitonic Fano Resonance in Free-Standing Graphene. Nano Letters, 2011, 11, 1379-1382.	9.1	117
67	Matched coordinates and adaptive spatial resolution in the Fourier modal method. Optics Express, 2009, 17, 8051.	3.4	115
68	Nonlinear Refractory Plasmonics with Titanium Nitride Nanoantennas. Nano Letters, 2016, 16, 5708-5713.	9.1	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.	6.6	113
70	Ultrafast energy relaxation in quantum dots. Physical Review B, 1996, 54, 17681-17690.	3.2	111
71	Amplitude and phase characterization of weak blue ultrashort pulses by downconversion. Optics Letters, 1999, 24, 569.	3.3	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.	3.0	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, .	3.2	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.	14.9	106
75	Third Harmonic Mechanism in Complex Plasmonic Fano Structures. ACS Photonics, 2014, 1, 471-476.	6.6	106
76	Near-Field Dynamics of Optical Yagi-Uda Nanoantennas. Nano Letters, 2011, 11, 2819-2824.	9.1	105
77	Ultrafast vector imaging of plasmonic skyrmion dynamics with deep subwavelength resolution. Science, 2020, 368, .	12.6	105
78	Self-Induced Transmission on a Free Exciton Resonance in a Semiconductor. Physical Review Letters, 1998, 81, 4260-4263.	7.8	104
79	Plasmonic Smart Dust for Probing Local Chemical Reactions. Nano Letters, 2013, 13, 1816-1821.	9.1	104
80	Optical Properties of Chiral Three-Dimensional Plasmonic Oligomers at the Onset of Charge-Transfer Plasmons. ACS Nano, 2012, 6, 10355-10365.	14.6	103
81	Vibrational near-field mapping of planar and buried three-dimensional plasmonic nanostructures. Nature Communications, 2013, 4, 2237.	12.8	103
82	Quantitative Angle-Resolved Small-Spot Reflectance Measurements on Plasmonic Perfect Absorbers: Impedance Matching and Disorder Effects. ACS Nano, 2014, 8, 10885-10892.	14.6	103
83	Towards the Origin of the Nonlinear Response in Hybrid Plasmonic Systems. Physical Review Letters, 2011, 106, 133901.	7.8	99
84	Plasmonic gas and chemical sensing. Nanophotonics, 2014, 3, 157-180.	6.0	98
85	Resonance hybridization in double split-ring resonator metamaterials. Optics Express, 2007, 15, 12095.	3.4	96
86	Imaging and steering an optical wireless nanoantenna link. Nature Communications, 2014, 5, 4354.	12.8	96
87	Tailoring the Ultrafast Dephasing of Quasiparticles in Metallic Photonic Crystals. Physical Review Letters, 2004, 93, 243901.	7.8	94
88	Spatial beam intensity shaping using phase masks on single-mode optical fibers fabricated by femtosecond direct laser writing. Optica, 2016, 3, 448.	9.3	94
89	Hydrogen-Regulated Chiral Nanoplasmonics. Nano Letters, 2016, 16, 1462-1466.	9.1	94
90	Babinet to the Half: Coupling of Solid and Inverse Plasmonic Structures. Nano Letters, 2013, 13, 4428-4433.	9.1	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.	9.1	92
92	Plasmonic Diastereomers: Adding up Chiral Centers. Nano Letters, 2013, 13, 600-606.	9.1	88
93	Tailoring Magnetic Dipole Emission with Plasmonic Split-Ring Resonators. Physical Review Letters, 2013, 111, 026803.	7.8	86
94	Yttrium Hydride Nanoantennas for Active Plasmonics. Nano Letters, 2014, 14, 1140-1147.	9.1	86
95	Electrically switchable metallic polymer nanoantennas. Science, 2021, 374, 612-616.	12.6	86
96	Functionalized Hydrogel on Plasmonic Nanoantennas for Noninvasive Glucose Sensing. ACS Photonics, 2015, 2, 475-480.	6.6	85
97	Tunable and switchable polarization rotation with non-reciprocal plasmonic thin films at designated wavelengths. Light: Science and Applications, 2015, 4, e284-e284.	16.6	84
98	A Surface-Emitting Circular Grating Polymer Laser. Advanced Materials, 2001, 13, 1161-1164.	21.0	82
99	DNA-assembled bimetallic plasmonic nanosensors. Light: Science and Applications, 2014, 3, e226-e226.	16.6	80
100	Highly Efficient Dual-Fiber Optical Trapping with 3D Printed Diffractive Fresnel Lenses. ACS Photonics, 2020, 7, 88-97.	6.6	80
101	Ultrathin monolithic 3D printed optical coherence tomography endoscopy for preclinical and clinical use. Light: Science and Applications, 2020, 9, 124.	16.6	80
102	Enhancing the Optical Excitation Efficiency of a Single Self-Assembled Quantum Dot with a Plasmonic Nanoantenna. Nano Letters, 2010, 10, 4555-4558.	9.1	79
103	Amplitude- and phase-resolved optical near fields of split-ring-resonator-based metamaterials. Optics Letters, 2008, 33, 848.	3.3	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.	7.3	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.	10.3	77
106	Spiral-type terahertz antennas and the manifestation of the Mushiake principle. Optics Express, 2009, 17, 9971.	3.4	76
107	Waveguide-Plasmon Polaritons Enhance Transverse Magneto-Optical Kerr Effect. Physical Review X, 2013, 3, .	8.9	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.	1.5	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.	7.8	73
110	Transition from thin-film to bulk properties of metamaterials. Physical Review B, 2008, 77, .	3.2	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.	2.1	71
112	Third-harmonic spectroscopy and modeling of the nonlinear response of plasmonic nanoantennas. Optics Letters, 2012, 37, 4741.	3.3	69
113	Chiral Scatterometry on Chemically Synthesized Single Plasmonic Nanoparticles. ACS Nano, 2019, 13, 8659-8668.	14.6	69
114	Characteristics of supercontinuum generationin tapered fibers using femtosecond laser pulses. Applied Physics B: Lasers and Optics, 2003, 77, 245-251.	2.2	68
115	Spatial Extent of Plasmonic Enhancement of Vibrational Signals in the Infrared. ACS Nano, 2014, 8, 6250-6258.	14.6	68
116	Single mode fiber based delivery of OAM light by 3D direct laser writing. Optics Express, 2017, 25, 19672.	3.4	66
117	Microfluidic photonic crystal double heterostructures. Applied Physics Letters, 2007, 91, .	3.3	65
118	High-power mid-infrared high repetition-rate supercontinuum source based on a chalcogenide step-index fiber. Optics Letters, 2015, 40, 2668.	3.3	65
119	The origin of magnetic polarizability in metamaterials at optical frequencies - an electrodynamic approach. Optics Express, 2007, 15, 8871.	3.4	64
120	All-Optical Control of the Ultrafast Dynamics of a Hybrid Plasmonic System. Physical Review Letters, 2010, 104, 113903.	7.8	64
121	Reducing the Complexity: Enantioselective Chiral Near-Fields by Diagonal Slit and Mirror Configuration. ACS Photonics, 2016, 3, 1076-1084.	6.6	64
122	Large-Area Low-Cost Plasmonic Perfect Absorber Chemical Sensor Fabricated by Laser Interference Lithography. ACS Sensors, 2016, 1, 1148-1154.	7.8	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.	6.6	63
124	Single Quantum Dot with Microlens and 3D-Printed Micro-objective as Integrated Bright Single-Photon Source. ACS Photonics, 2017, 4, 1327-1332.	6.6	63
125	Two-Photon Pumped Lasing from a Two-Dimensional Photonic Bandgap Structure with Polymeric Gain Material. Advanced Materials, 2002, 14, 673-676.	21.0	62
126	Spectral shifts in optical nanoantenna-enhanced hydrogen sensors. Optical Materials Express, 2012, 2, 111.	3.0	61

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127	Large-Area High-Quality Plasmonic Oligomers Fabricated by Angle-Controlled Colloidal Nanolithography. ACS Nano, 2011, 5, 9009-9016.	14.6	60
128	Largeâ€Area Lowâ€Cost Plasmonic Nanostructures in the NIR for Fano Resonant Sensing. Advanced Materials, 2012, 24, OP247-52.	21.0	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.	3.0	60
130	Ultra-stable high average power femtosecond laser system tunable from 133 to 20â€‰â€‰Î¼m. Optics Letters, 2016, 41, 4863.	3.3	60
131	Resonances in complementary metamaterials and nanoapertures. Optics Express, 2008, 16, 2080.	3.4	59
132	From Near-Field to Far-Field Coupling in the Third Dimension: Retarded Interaction of Particle Plasmons. Nano Letters, 2011, 11, 4421-4424.	9.1	58
133	Towards integration of a liquid-filled fiber capillary for supercontinuum generation in the 12â€“24 Î¼m range. Optics Express, 2015, 23, 8281.	3.4	57
134	Combining in-situ lithography with 3D printed solid immersion lenses for single quantum dot spectroscopy. Scientific Reports, 2017, 7, 39916.	3.3	57
135	Periodic Nanostructures: Spatial Dispersion Mimics Chirality. Physical Review Letters, 2011, 106, 185501.	7.8	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.	6.6	56
137	Nonreciprocal hybrid magnetoplasmonics. Reports on Progress in Physics, 2018, 81, 116401.	20.1	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.	6.7	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.	2.1	55
140	Imaging the Nonlinear Plasmoemission Dynamics of Electrons from Strong Plasmonic Fields. Nano Letters, 2017, 17, 6569-6574.	9.1	54
141	Near-fieldâ€“induced tunability of surface plasmon polaritons in composite metallic nanostructures. Journal of Microscopy, 2008, 229, 344-353.	1.8	53
142	Lagrange model for the chiral optical properties of stereometamaterials. Physical Review B, 2010, 81, .	3.2	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.	3.3	52

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145	Refractory Plasmonics without Refractory Materials. Nano Letters, 2017, 17, 6402-6408.	9.1	52
146	Correlation Effects in Disordered Metallic Photonic Crystal Slabs. Physical Review Letters, 2007, 98, 133902.	7.8	51
147	Three-dimensional optical metamaterials as model systems for longitudinal and transverse magnetic coupling. Optics Express, 2008, 16, 21233.	3.4	51
148	Resonant mode coupling of optical resonances in stacked nanostructures. Optics Express, 2010, 18, 7569.	3.4	51
149	High-power femtosecond mid-infrared optical parametric oscillator at 7â€‰â€‰Î¼m based on CdSiP_2. Optics Letters, 2015, 40, 1398.	3.3	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.	1.5	50
151	Strong coupling of localized and surface plasmons to microcavity modes. Optics Letters, 2011, 36, 2218.	3.3	50
152	Fast profile measurement of micrometer-sized tapered fibers with better than 50-nm accuracy. Optics Letters, 2004, 29, 1727.	3.3	49
153	Large-area metallic photonic crystal fabrication with interference lithography and dry etching. Applied Physics B: Lasers and Optics, 2005, 81, 271-275.	2.2	49
154	Hydrogen sensor based on metallic photonic crystal slabs. Optics Letters, 2010, 35, 3150.	3.3	49
155	Largeâ€Area Antennaâ€Assisted SEIRA Substrates by Laser Interference Lithography. Advanced Optical Materials, 2014, 2, 1050-1056.	7.3	49
156	Near-Unity Light Absorption in a Monolayer WS₂ Van der Waals Heterostructure Cavity. Nano Letters, 2020, 20, 3545-3552.	9.1	48
157	Ultrafast nonlinear subwavelength solid immersion spectroscopy at T=8â€ŠK. Applied Physics Letters, 1999, 74, 1791-1793.	3.3	47
158	Fabrication method for microscopic vapor cells for alkali atoms. Optics Letters, 2010, 35, 1950.	3.3	47
159	Near- and Far-Field Properties of Plasmonic Oligomers under Radially and Azimuthally Polarized Light Excitation. ACS Nano, 2014, 8, 4969-4974.	14.6	47
160	Highly Sensitive Refractive Index Sensors with Plasmonic Nanoantennasâ^'Utilization of Optimal Spectral Detuning of Fano Resonances. ACS Sensors, 2018, 3, 960-966.	7.8	47
161	The optical gain mechanism in solid conjugated polymers. Applied Physics Letters, 1998, 72, 2933-2935.	3.3	46
162	Tapering fibers with complex shape. Optics Express, 2010, 18, 3426.	3.4	46

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163	Group velocity dispersion of tapered fibers immersed in different liquids. Optics Express, 2004, 12, 1700.	3.4	45
164	In Vitro Monitoring Conformational Changes of Polypeptide Monolayers Using Infrared Plasmonic Nanoantennas. Nano Letters, 2019, 19, 1-7.	9.1	45
165	Vibrational Sensing Using Infrared Nanoantennas: Toward the Noninvasive Quantitation of Physiological Levels of Glucose and Fructose. ACS Sensors, 2019, 4, 1973-1979.	7.8	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.	3.3	44
167	Coherent nonlinear pulse propagation on a free-exciton resonance in a semiconductor. Physical Review B, 2001, 64, .	3.2	43
168	Lorentz model for metamaterials: Optical frequency resonance circuits. Physical Review B, 2007, 75, .	3.2	43
169	Analytical Model of the Three-Dimensional Plasmonic Ruler. ACS Nano, 2012, 6, 1291-1298.	14.6	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.	3.0	43
171	Low-Cost Hydrogen Sensor in the ppm Range with Purely Optical Readout. ACS Sensors, 2020, 5, 978-983.	7.8	43
172	Enhanced transmission of periodic, quasiperiodic, and random nanoaperture arrays. Applied Physics Letters, 2007, 91, .	3.3	42
173	Laser emission from a solid conjugated polymer:â€ƒGain, tunability, and coherence. Physical Review B, 1998, 57, R4218-R4221.	3.2	41
174	Selective suppression of extinction within the plasmon resonance of gold nanoparticles. Applied Physics B: Lasers and Optics, 2001, 73, 311-316.	2.2	41
175	Evidence for bandedge lasing in a two-dimensional photonic bandgap polymer laser. Applied Physics Letters, 2002, 80, 734-736.	3.3	41
176	Light harvesting enhancement in solar cells with quasicrystalline plasmonic structures. Optics Express, 2013, 21, A363.	3.4	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.	6.6	41
178	Stitching-free 3D printing of millimeter-sized highly transparent spherical and aspherical optical components. Optical Materials Express, 2020, 10, 2370.	3.0	41
179	Tailored micro-optical freeform holograms for integrated complex beam shaping. Optica, 2020, 7, 1279.	9.3	41
180	Eleven Nanometer Alignment Precision of a Plasmonic Nanoantenna with a Self-Assembled GaAs Quantum Dot. Nano Letters, 2014, 14, 197-201.	9.1	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, .	3.2	40
182	3D printed stacked diffractive microlenses. Optics Express, 2019, 27, 35621.	3.4	40
183	Photoluminescence decay dynamics in an InGaN/AlGaN/GaN doubleâ€heterostructure blueâ€lightâ€emitting diode. Applied Physics Letters, 1995, 67, 1515-1517.	3.3	39
184	Tunable ultrafast nonlinear optofluidic coupler. Optics Letters, 2012, 37, 1058.	3.3	39
185	Analytic Optimization of Near-Field Optical Chirality Enhancement. ACS Photonics, 2017, 4, 396-406.	6.6	39
186	Design Principles for Sensitivity Optimization in Plasmonic Hydrogen Sensors. ACS Sensors, 2020, 5, 917-927.	7.8	39
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