# 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 | Ultra-compact 3D-printed wide-angle cameras realized by multi-aperture freeform optical design. Optics Express, 2022, 30, 707. | 3.4 | 21 |
| 2 | Emission spectroscopy of NaYF<sub>4</sub>:Eu nanorods optically trapped by Fresnel lens fibers. Photonics Research, 2022, 10, 332. | 7.0 | 9 |
| 3 | Fresnel lens optical fiber tweezers to evaluate the vitality of single algae cells. Optics Letters, 2022, 47, 170. | 3.3 | 7 |
| 4 | Nanophotonic Chiral Sensing: How Does It Actually Work?. ACS Nano, 2022, 16, 2822-2832. | 14.6 | 30 |
| 5 | Burst-mode femtosecond fiber-feedback optical parametric oscillator. Optics Letters, 2022, 47, 525. | 3.3 | 4 |
| 6 | 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. | 3.4 | 8 |
| 7 | Micro-3D-printed multi-aperture freeform ultra-wide-angle systems: production, characterization, and correction. , 2022, , . | | 0 |
| 8 | Atomic layer deposition of conformal anti-reflective coatings on complexâ€‰3D printed micro-optical systems. Optical Materials Express, 2022, 12, 2063. | 3.0 | 12 |
| 9 | 3Dâ€Printed Micro Lensâ€inâ€Lens for In Vivo Multimodal Microendoscopy. Small, 2022, 18, e2107032. | 10.0 | 21 |
| 10 | Machine Learning Methods of Regression for Plasmonic Nanoantenna Glucose Sensing. Sensors, 2022, 22, 7. | 3.8 | 7 |
| 11 | Numerical optimization of single-mode fiber-coupled single-photon sources based on semiconductor quantum dots. Optics Express, 2022, 30, 15913. | 3.4 | 20 |
| 12 | 3Dâ€Printed Micro Lensâ€inâ€Lens for In Vivo Multimodal Microendoscopy (Small 17/2022). Small, 2022, 18, . | 10.0 | 0 |
| 13 | Sub-40â€‰fs optical parametric oscillator beyond the gain bandwidth limit. Optics Letters, 2022, 47, 3099. | 3.3 | 1 |
| 14 | Predicting Laser-Induced Colors of Random Plasmonic Metasurfaces and Optimizing Image Multiplexing Using Deep Learning. ACS Nano, 2022, 16, 9410-9419. | 14.6 | 7 |
| 15 | Microscopic 3D printed optical tweezers for atomic quantum technology. Quantum Science and Technology, 2022, 7, 045011. | 5.8 | 11 |
| 16 | Topological plasmonics: Ultrafast vector movies of plasmonic skyrmions on the nanoscale. , 2021, , . | | 0 |
| 17 | Quantum Dot Single-Photon Emission Coupled into Single-Mode Fibers with 3D Printed Micro-Objectives. , 2021, , . | | 0 |
| 18 | 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. | 5.1 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Watching In Situ the Hydrogen Diffusion Dynamics in Magnesium on the Nanoscale. , 2021, , . | | 0 |
| 20 | Nanophotonic Chiral Sensing: How Does it Actually Work?. , 2021, , . | | 1 |
| 21 | Interaction of edge exciton polaritons with engineered defects in the hyperbolic material Bi2Se3. Communications Materials, 2021, 2, . | 6.9 | 13 |
| 22 | SEIRA Sensing of Different Sugars at Physiological Concentrations. , 2021, , . | | 0 |
| 23 | 3D-printed miniature spectrometer for the visible range with a 100 Ã— 100 Î¼m<sup>2</sup> footprint. Light Advanced Manufacturing, 2021, 2, 20. | 5.1 | 38 |
| 24 | 3D Printed Hybrid Refractive/Diffractive Achromat and Apochromat for the Visible Wavelength Range. , 2021, , . | | 0 |
| 25 | Alignment-Free Mid-IR Source Tunable From 5 to 20 Âµm by Mixing Two Independently Tunable OPOs. , 2021, , . | | 0 |
| 26 | Mark Stockman: Evangelist for Plasmonics. ACS Photonics, 2021, 8, 683-698. | 6.6 | 2 |
| 27 | Measuring Molecular Diffusion Through Thin Polymer Films with Dual-Band Plasmonic Antennas. ACS Nano, 2021, 15, 10393-10405. | 14.6 | 6 |
| 28 | Liquid Hydrogenation of Plasmonic Nanoantennas via Alcohol Deprotonation. ACS Photonics, 2021, 8, 1810-1816. | 6.6 | 2 |
| 29 | Niobium nitride plasmonic perfect absorbers for tunable infrared superconducting nanowire photodetection. Optics Express, 2021, 29, 17087. | 3.4 | 5 |
| 30 | 3D printed hybrid refractive/diffractive achromat and apochromat for the visible wavelength range. Optics Letters, 2021, 46, 2485. | 3.3 | 26 |
| 31 | Shaping the Color and Angular Appearance of Plasmonic Metasurfaces with Tailored Disorder. ACS Nano, 2021, 15, 10318-10327. | 14.6 | 21 |
| 32 | Femtosecond Fieldâ€Driven Onâ€Chip Unidirectional Electronic Currents in Nonadiabatic Tunneling Regime. Laser and Photonics Reviews, 2021, 15, 2000475. | 8.7 | 10 |
| 33 | 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. | 6.6 | 8 |
| 34 | Nanoscale Bouligand Multilayers: Giant Circular Dichroism of Helical Assemblies of Plasmonic 1D Nano-Objects. ACS Nano, 2021, 15, 13653-13661. | 14.6 | 20 |
| 35 | Phyllotaxis-inspired nanosieves with multiplexed orbital angular momentum. ELight, 2021, 1, . | 23.9 | 132 |
| 36 | Superconducting NbN plasmonic perfect absorbers for tunable single photon near- and mid-IR photodetection. , 2021, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Robust and rapidly tunable light source for SRS/CARS microscopy with extremely low-intensity noise. , 2021, , . | | 0 |
| 38 | Femtosecond Tunable Light Source with Variable Repetition Rate and Ultra-high Pulse Contrast Ratio. , 2021, , . | | 1 |
| 39 | Electrically Switchable Metasurface for Beam Steering Using PEDOT Polymers. , 2021, , . | | 1 |
| 40 | Extraordinarily Strong Second Harmonic Generation Enhancement in Hybrid Plasmon-Fiber Cavity System. , 2021, , . | | 0 |
| 41 | Stitching-free 3D printing of millimeter-sized highly transparent spherical and aspherical optical components. , 2021, , . | | 0 |
| 42 | Tunable s-SNOM for Nanoscale Infrared Optical Measurement of Electronic Properties of Bilayer Graphene. ACS Photonics, 2021, 8, 418-423. | 6.6 | 17 |
| 43 | Electrically switchable metallic polymer nanoantennas. Science, 2021, 374, 612-616. | 12.6 | 86 |
| 44 | Influence of disorder on a Bragg microcavity. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 139. | 2.1 | 3 |
| 45 | Giant Second Harmonic Generation Enhancement in a High-Q Doubly Resonant Hybrid Plasmonâ€“Fiber Cavity System. ACS Nano, 2021, 15, 19409-19417. | 14.6 | 8 |
| 46 | Highly Efficient Dual-Fiber Optical Trapping with 3D Printed Diffractive Fresnel Lenses. ACS Photonics, 2020, 7, 88-97. | 6.6 | 80 |
| 47 | Ultra-Broadband and Omnidirectional Perfect Absorber Based on Copper Nanowire/Carbon Nanotube Hierarchical Structure. ACS Photonics, 2020, 7, 366-374. | 6.6 | 12 |
| 48 | Quantum confined Rydberg excitons in reduced dimensions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 024001. | 1.5 | 19 |
| 49 | Electrons Generate Self-Complementary Broadband Vortex Light Beams Using Chiral Photon Sieves. Nano Letters, 2020, 20, 5975-5981. | 9.1 | 18 |
| 50 | Optical Carbon Dioxide Detection in the Visible Down to the Single Digit ppm Range Using Plasmonic Perfect Absorbers. ACS Sensors, 2020, 5, 2628-2635. | 7.8 | 10 |
| 51 | Ultrathin monolithic 3D printed optical coherence tomography endoscopy for preclinical and clinical use. Light: Science and Applications, 2020, 9, 124. | 16.6 | 80 |
| 52 | Quantum dot single-photon emission coupled into single-mode fibers with 3D printed micro-objectives. APL Photonics, 2020, 5, . | 5.7 | 35 |
| 53 | Highly confined in-plane propagating exciton-polaritons on monolayer semiconductors. 2D Materials, 2020, 7, 035031. | 4.4 | 32 |
| 54 | Microwave probing of bulk dielectrics using superconducting coplanar resonators in distant-flip-chip geometry. Review of Scientific Instruments, 2020, 91, 054702. | 1.3 | 2 |

| # | Article | IF | Citations |
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| 55 | Watching in situ the hydrogen diffusion dynamics in magnesium on the nanoscale. Science Advances, 2020, 6, eaaz0566. | 10.3 | 33 |
| 56 | 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. | 7.3 | 10 |
| 57 | Low-Cost Hydrogen Sensor in the ppm Range with Purely Optical Readout. ACS Sensors, 2020, 5, 978-983. | 7.8 | 43 |
| 58 | Tailoring the plasmonic Fano resonance in metallic photonic crystals. Nanophotonics, 2020, 9, 523-531. | 6.0 | 14 |
| 59 | Design Principles for Sensitivity Optimization in Plasmonic Hydrogen Sensors. ACS Sensors, 2020, 5, 917-927. | 7.8 | 39 |
| 60 | Near-Unity Light Absorption in a Monolayer WS<sub>2</sub> Van der Waals Heterostructure Cavity. Nano Letters, 2020, 20, 3545-3552. | 9.1 | 48 |
| 61 | Ultrafast vector imaging of plasmonic skyrmion dynamics with deep subwavelength resolution. Science, 2020, 368, . | 12.6 | 105 |
| 62 | Switchable Optical Nonlinearity at the Metal to Insulator Transition in Magnesium Thin Films. ACS Photonics, 2020, 7, 1560-1568. | 6.6 | 2 |
| 63 | Electrically switchable metasurface for beam steering using PEDOT polymers. Journal of Optics (United Kingdom), 2020, 22, 124001. | 2.2 | 15 |
| 64 | Alignment-free difference frequency light source tunable from 5 to 20â€…Âµm by mixing two independently tunable OPOs. Optics Express, 2020, 28, 11883. | 3.4 | 4 |
| 65 | Arrays of individually controllable optical tweezers based on 3D-printed microlens arrays. Optics Express, 2020, 28, 8640. | 3.4 | 22 |
| 66 | Mass-producible micro-optical elements by injection compression molding and focused ion beam structured titanium molding tools. Optics Letters, 2020, 45, 1184. | 3.3 | 6 |
| 67 | Distortion-free multi-element Hypergon wide-angle micro-objective obtained by femtosecond 3D printing. Optics Letters, 2020, 45, 2784. | 3.3 | 18 |
| 68 | Optimizing magnesium thin films for optical switching applications: rules and recipes. Optical Materials Express, 2020, 10, 1346. | 3.0 | 11 |
| 69 | Tailored nanocomposites for 3D printed micro-optics. Optical Materials Express, 2020, 10, 2345. | 3.0 | 28 |
| 70 | Stitching-free 3D printing of millimeter-sized highly transparent spherical and aspherical optical components. Optical Materials Express, 2020, 10, 2370. | 3.0 | 41 |
| 71 | Optical properties of niobium nitride plasmonic nanoantennas for the near- and mid-infrared spectral range. Optical Materials Express, 2020, 10, 2597. | 3.0 | 12 |
| 72 | Tailored micro-optical freeform holograms for integrated complex beam shaping. Optica, 2020, 7, 1279. | 9.3 | 41 |

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| 73 | Electron-driven photon sources for correlative electron-photon spectroscopy with electron microscopes. Nanophotonics, 2020, 9, 4381-4406. | 6.0 | 22 |
| 74 | Compact harmonic cavity optical parametric oscillator for optical parametric amplifier seeding. Optics Express, 2020, 28, 25000. | 3.4 | 2 |
| 75 | Extremely Efficient Light-Exciton Interaction in a Monolayer WS2 van der Waals Heterostructure Cavity. , 2020, , . | | 0 |
| 76 | Highly miniaturized endoscopic spatial confocal point distance sensor. Optical Engineering, 2020, 59, 1. | 1.0 | 4 |
| 77 | Dynamic tailoring of an optical skyrmion lattice in surface plasmon polaritons: comment. Optics Express, 2020, 28, 33614. | 3.4 | 6 |
| 78 | In Vitro Monitoring Conformational Changes of Polypeptide Monolayers Using Infrared Plasmonic Nanoantennas. Nano Letters, 2019, 19, 1-7. | 9.1 | 45 |
| 79 | Adaptive Method for Quantitative Estimation of Glucose and Fructose Concentrations in Aqueous Solutions Based on Infrared Nanoantenna Optics. Sensors, 2019, 19, 3053. | 3.8 | 8 |
| 80 | Electrochemistry on Inverse Copper Nanoantennas: Active Plasmonic Devices with Extraordinarily Large Resonance Shift. ACS Photonics, 2019, 6, 1863-1868. | 6.6 | 26 |
| 81 | Chiral Scatterometry on Chemically Synthesized Single Plasmonic Nanoparticles. ACS Nano, 2019, 13, 8659-8668. | 14.6 | 69 |
| 82 | 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 |
| 83 | Nonlinear Spectroscopy on the Plasmonic Analog of Electromagnetically Induced Absorption: Revealing Minute Structural Asymmetries. ACS Photonics, 2019, 6, 2850-2859. | 6.6 | 8 |
| 84 | Pushing Down the Limit: In Vitro Detection of a Polypeptide Monolayer on a Single Infrared Resonant Nanoantenna. ACS Photonics, 2019, 6, 2636-2642. | 6.6 | 20 |
| 85 | Innentitelbild: Selective Autonomous Molecular Transport and Collection by Hydrogelâ€Embedded Supramolecular Chemical Gradients (Angew. Chem. 50/2019). Angewandte Chemie, 2019, 131, 18046-18046. | 2.0 | 0 |
| 86 | Electron-Driven Photon Sources for Spectral Interferometry using Electron Microscopes. , 2019, , . | | 0 |
| 87 | Selective Autonomous Molecular Transport and Collection by Hydrogelâ€Embedded Supramolecular Chemical Gradients. Angewandte Chemie, 2019, 131, 18333-18338. | 2.0 | 6 |
| 88 | Selective Autonomous Molecular Transport and Collection by Hydrogelâ€Embedded Supramolecular Chemical Gradients. Angewandte Chemie - International Edition, 2019, 58, 18165-18170. | 13.8 | 9 |
| 89 | Interaction of orbital angular momentum light with Rydberg excitons: Modifying dipole selection rules. Physical Review B, 2019, 100, . | 3.2 | 25 |
| 90 | Resonant Plasmonic Nanoslits Enable in Vitro Observation of Single-Monolayer Collagen-Peptide Dynamics. ACS Sensors, 2019, 4, 1966-1972. | 7.8 | 16 |

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| 91 | Stimulated Raman Scattering Microscopy with an All-Optical Modulator. Physical Review Applied, 2019, 11, . | 3.8 | 4 |
| 92 | Spatiotemporal Analysis of an Efficient Fresnel Grating Coupler for Focusing Surface Plasmon Polaritons. ACS Photonics, 2019, 6, 600-604. | 6.6 | 13 |
| 93 | Merging transformation optics with electron-driven photon sources. Nature Communications, 2019, 10, 599. | 12.8 | 31 |
| 94 | Nonlinear Born-Kuhn Analog for Chiral Plasmonics. ACS Photonics, 2019, 6, 3306-3314. | 6.6 | 25 |
| 95 | Utilizing niobium plasmonic perfect absorbers for tunable near- and mid-IR photodetection. Optics Express, 2019, 27, 25012. | 3.4 | 16 |
| 96 | 3D printed stacked diffractive microlenses. Optics Express, 2019, 27, 35621. | 3.4 | 40 |
| 97 | Coherently broadened, high-repetition-rate laser for stimulated Raman scatteringâ€“spectroscopic optical coherence tomography. Optics Letters, 2019, 44, 291. | 3.3 | 4 |
| 98 | Tunable green lasing from circular grating distributed feedback based on CH<sub>3</sub>NH<sub>3</sub>PbBr<sub>3</sub> perovskite. Optical Materials Express, 2019, 9, 2006. | 3.0 | 16 |
| 99 | 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 |
| 100 | Concept for a highly miniaturized endoscopic point distance sensor. , 2019, , . | | 0 |
| 101 | Coupling a single solid-state quantum emitter to an array of resonant plasmonic antennas. Scientific Reports, 2018, 8, 3415. | 3.3 | 15 |
| 102 | Mathematical Modeling of a Plasmonic Palladium-Based Hydrogen Sensor. IEEE Sensors Journal, 2018, 18, 1946-1959. | 4.7 | 10 |
| 103 | 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 |
| 104 | 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 |
| 105 | Wavelength-Dependent Third-Harmonic Generation in Plasmonic Gold Nanoantennas: Quantitative Determination of the d-Band Influence. ACS Photonics, 2018, 5, 1863-1870. | 6.6 | 16 |
| 106 | Nonreciprocal hybrid magnetoplasmonics. Reports on Progress in Physics, 2018, 81, 116401. | 20.1 | 56 |
| 107 | Nanoscale Hydrogenography on Single Magnesium Nanoparticles. Nano Letters, 2018, 18, 4293-4302. | 9.1 | 35 |
| 108 | Temperature dependent two-photon photoluminescence of CH<sub>3</sub>NH<sub>3</sub>PbBr<sub>3</sub>: structural phase and exciton to free carrier transition. Optical Materials Express, 2018, 8, 511. | 3.0 | 26 |

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| 109 | 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. | 2.1 | 4 |
| 110 | Ultranarrow Second-Harmonic Resonances in Hybrid Plasmon-Fiber Cavities. Nano Letters, 2018, 18, 5576-5582. | 9.1 | 25 |
| 111 | Single Plasmonic Oligomer Chiral Spectroscopy. Advanced Optical Materials, 2018, 6, 1800087. | 7.3 | 29 |
| 112 | Comment on â€œEnantioselective Optical Trapping of Chiral Nanoparticles with Plasmonic Tweezersâ€: ACS Photonics, 2018, 5, 2533-2534. | 6.6 | 4 |
| 113 | Niobium as Alternative Material for Refractory and Active Plasmonics. ACS Photonics, 2018, 5, 3298-3304. | 6.6 | 27 |
| 114 | Alignment-free integration of apertures and nontransparent hulls into 3D-printed micro-optics. Optics Letters, 2018, 43, 5283. | 3.3 | 24 |
| 115 | Three-dimensional direct laser written achromatic axicons and multi-component microlenses. Optics Letters, 2018, 43, 5837. | 3.3 | 38 |
| 116 | Compact see-through AR system using buried imaging fiber bundles. , 2018, , . | | 0 |
| 117 | Combining in-situ lithography with 3D printed solid immersion lenses for single quantum dot spectroscopy. Scientific Reports, 2017, 7, 39916. | 3.3 | 57 |
| 118 | Analytic Optimization of Near-Field Optical Chirality Enhancement. ACS Photonics, 2017, 4, 396-406. | 6.6 | 39 |
| 119 | Phase-resolved pulse propagation through metallic photonic crystal slabs: plasmonic slow light. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160065. | 3.4 | 5 |
| 120 | 3D-printed eagle eye: Compound microlens system for foveated imaging. Science Advances, 2017, 3, e1602655. | 10.3 | 227 |
| 121 | Spectroscopy of Graphene at the Saddle Point. , 2017, , 325-347. | | 0 |
| 122 | Probing the Near-Field of Second-Harmonic Light around Plasmonic Nanoantennas. Nano Letters, 2017, 17, 1931-1937. | 9.1 | 34 |
| 123 | Nanoantenna-Enhanced Infrared Spectroscopic Chemical Imaging. ACS Sensors, 2017, 2, 655-662. | 7.8 | 19 |
| 124 | 3D printed complex microoptics: A new paradigm in optics manufacturing (Conference Presentation). , 2017, , . | | 0 |
| 125 | Chiral plasmonics. Science Advances, 2017, 3, e1602735. | 10.3 | 583 |
| 126 | Hybrid Organic-Plasmonic Nanoantennas with Enhanced Third-Harmonic Generation. ACS Omega, 2017, 2, 2577-2582. | 3.5 | 9 |

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|---|---|---|---|
| 127 | 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 |
| 128 | Surface-Enhanced Infrared Spectroscopy Using Resonant Nanoantennas. Chemical Reviews, 2017, 117, 5110-5145. | 47.7 | 457 |
| 129 | Revealing the subfemtosecond dynamics of orbital angular momentum in nanoplasmonic vortices. Science, 2017, 355, 1187-1191. | 12.6 | 217 |
| 130 | Wavelength Scaling in Antenna-Enhanced Infrared Spectroscopy: Toward the Far-IR and THz Region. ACS Photonics, 2017, 4, 45-51. | 6.6 | 28 |
| 131 | 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. | 0.9 | 1 |
| 132 | Imaging the Nonlinear Plasmoemission Dynamics of Electrons from Strong Plasmonic Fields. Nano Letters, 2017, 17, 6569-6574. | 9.1 | 54 |
| 133 | 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 |
| 134 | Refractory Plasmonics without Refractory Materials. Nano Letters, 2017, 17, 6402-6408. | 9.1 | 52 |
| 135 | Subfemtosecond and Nanometer Plasmon Dynamics with Photoelectron Microscopy: Theory and Efficient Simulations. ACS Photonics, 2017, 4, 2461-2469. | 6.6 | 22 |
| 136 | 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 |
| 137 | Plasmonic Analog of Electromagnetically Induced Absorption Leads to Giant Thin Film Faraday Rotation of 14Â°. Physical Review X, 2017, 7, . | 8.9 | 33 |
| 138 | Beam switching and bifocal zoom lensing using active plasmonic metasurfaces. Light: Science and Applications, 2017, 6, e17016-e17016. | 16.6 | 313 |
| 139 | Unbiased All-Optical Random-Number Generator. Physical Review X, 2017, 7, . | 8.9 | 13 |
| 140 | Modeling of pressure-composition isotherms and diffusion dynamics of a plasmonic palladium sensor for hydrogen detection. , 2017, , . | | 1 |
| 141 | Single mode fiber based delivery of OAM light by 3D direct laser writing. Optics Express, 2017, 25, 19672. | 3.4 | 66 |
| 142 | Refractive index measurements of photo-resists for three-dimensional direct laser writing. Optical Materials Express, 2017, 7, 2293. | 3.0 | 118 |
| 143 | Nearly diffraction limited FTIR mapping using an ultrastable broadband femtosecond laser tunable from 133 to 8 Âµm. Optics Express, 2017, 25, 32355. | 3.4 | 14 |
| 144 | Integrated approach to realize top hat focal field distributions. , 2017, , . | | 0 |

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| 145 | 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 |
| 146 | Complex Micro-Optics by Femtosecond Direct Laser Writing. , 2017, , . | | 0 |
| 147 | Linear and nonlinear optical properties of hybrid metallicâ€“dielectric plasmonic nanoantennas. Beilstein Journal of Nanotechnology, 2016, 7, 111-120. | 2.8 | 30 |
| 148 | Narrowband cw injection seeded high power femtosecond double-pass optical parametric generator at 43 MHz: Gain and noise dynamics. Optics Express, 2016, 24, 19558. | 3.4 | 15 |
| 149 | Low drift cw-seeded high-repetition-rate optical parametric amplifier for fingerprint coherent Raman spectroscopy. Optics Express, 2016, 24, 22296. | 3.4 | 2 |
| 150 | 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. | 1.0 | 1 |
| 151 | Solitonic supercontinuum of femtosecond mid-IR pulses in W-type index tellurite fibers with two zero dispersion wavelengths. APL Photonics, 2016, 1, . | 5.7 | 24 |
| 152 | Short-range surface plasmonics and its (sub-)femtosecond dynamics. , 2016, , . | | 0 |
| 153 | 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 |
| 154 | Nonlinear Plasmonic Sensing. Nano Letters, 2016, 16, 3155-3159. | 9.1 | 150 |
| 155 | The optimal antenna for nonlinear spectroscopy of weakly and strongly scattering nanoobjects. Applied Physics B: Lasers and Optics, 2016, 122, 1. | 2.2 | 4 |
| 156 | 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 |
| 157 | Reducing the Complexity: Enantioselective Chiral Near-Fields by Diagonal Slit and Mirror Configuration. ACS Photonics, 2016, 3, 1076-1084. | 6.6 | 64 |
| 158 | Synchronization-free all-solid-state laser system for stimulated Raman scattering microscopy. Light: Science and Applications, 2016, 5, e16149-e16149. | 16.6 | 27 |
| 159 | Ultrafast Nonlinear Plasmonic Spectroscopy: From Dipole Nanoantennas to Complex Hybrid Plasmonic Structures. ACS Photonics, 2016, 3, 1336-1350. | 6.6 | 38 |
| 160 | Lorentz Nonreciprocal Model for Hybrid Magnetoplasmonics. Physical Review Letters, 2016, 117, 063901. | 7.8 | 18 |
| 161 | Nonlinear Refractory Plasmonics with Titanium Nitride Nanoantennas. Nano Letters, 2016, 16, 5708-5713. | 9.1 | 115 |
| 162 | Das kleinste Endoskop der Welt per 3D-Druck. Physik in Unserer Zeit, 2016, 47, 214-215. | 0.0 | 0 |

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| 163 | Large-Area Low-Cost Plasmonic Perfect Absorber Chemical Sensor Fabricated by Laser Interference Lithography. ACS Sensors, 2016, 1, 1148-1154. | 7.8 | 64 |
| 164 | Correction to Helical Plasmonic Nanostructures as Prototypical Chiral Near-Field Sources. ACS Photonics, 2016, 3, 2000-2002. | 6.6 | 2 |
| 165 | Ultra-compact on-chip LED collimation optics by 3D femtosecond direct laser writing. Optics Letters, 2016, 41, 3029. | 3.3 | 52 |
| 166 | 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 |
| 167 | Laser spectroscopy with tunable ultrafast optical parametric light sources. , 2016, , . | | 0 |
| 168 | Design, simulation and 3D printing of complex micro-optics for imaging. , 2016, , . | | 3 |
| 169 | Sub-micrometre accurate free-form optics by three-dimensional printing on single-mode fibres. Nature Communications, 2016, 7, 11763. | 12.8 | 248 |
| 170 | Hydrogen-regulated chiral nanoplasmonics. Proceedings of SPIE, 2016, , . | 0.8 | 1 |
| 171 | Direct glimpse into the spatiotemporal dynamics of plasmonic vortices. , 2016, , . | | 0 |
| 172 | Experimental long-term survey of mid-infrared supercontinuum source based on As2S3 suspended-core fibers. Applied Physics B: Lasers and Optics, 2016, 122, 1. | 2.2 | 14 |
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