

# Monika Fleischer

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/299242/publications.pdf>

Version: 2024-02-01

62  
papers

1,171  
citations

331259

21  
h-index

414034

32  
g-index

63  
all docs

63  
docs citations

63  
times ranked

1600  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Gold Nanocone Near-Field Scanning Optical Microscopy Probes. ACS Nano, 2011, 5, 2570-2579.   | 7.3 | 82        |
| 2  | Parabolic mirror-assisted tip-enhanced spectroscopic imaging for non-transparent materials. Journal of Raman Spectroscopy, 2009, 40, 1371-1376.                                  | 1.2 | 76        |
| 3  | Roadmap on biosensing and photonics with advanced nano-optical methods. Journal of Optics (United Kingdom), 2010, 11, 011001.  | 1.0 | 61        |
| 4  | Influence of temperature on HSQ electron-beam lithography. Journal of Vacuum Science & Technology B, 2007, 25, 2045-2048.  | 1.3 | 58        |
| 5  | Three-dimensional optical antennas: Nanocones in an apertureless scanning near-field microscope. Applied Physics Letters, 2008, 93, 111114.                                      | 1.5 | 53        |
| 6  | Parallel Fabrication of Plasmonic Nanocone Sensing Arrays. Small, 2013, 9, 3987-3992.  | 5.2 | 48        |
| 7  | Collective Effects in Second-Harmonic Generation from Plasmonic Oligomers. Nano Letters, 2018, 18, 2571-2580.  | 4.5 | 46        |
| 8  | A single particle plasmon resonance study of 3D conical nanoantennas. Nanoscale, 2013, 5, 7861.  | 2.8 | 43        |
| 9  | Tailoring gold nanostructures for near-field optical applications. Nanotechnology, 2010, 21, 065301.   | 1.3 | 42        |
| 10 | Continuous reversible tuning of the gap size and plasmonic coupling of bow tie nanoantennas on flexible substrates. Nanoscale, 2018, 10, 14915-14922.                            | 2.8 | 40        |
| 11 | Fabrication of metallic nanostructures for investigating plasmon-induced field enhancement. Microelectronic Engineering, 2007, 84, 1589-1592.                                    | 1.1 | 36        |
| 12 | Nonlinear optical point light sources through field enhancement at metallic nanocones. Optics Express, 2014, 22, 15484.  | 1.7 | 36        |
| 13 | Transparent Graphene/PEDOT:PSS Microelectrodes for Electro- and Optophysiology. Advanced Materials Technologies, 2019, 4, 1800318.   | 3.0 | 36        |
| 14 | Direct Comparison of Second Harmonic Generation and Two-Photon Photoluminescence from Single Connected Gold Nanodimers. Journal of Physical Chemistry C, 2016, 120, 17699-17710. | 1.5 | 30        |
| 15 | Near-field scanning optical microscopy nanoprobe. Nanotechnology Reviews, 2012, 1, 313-338.  | 2.6 | 28        |
| 16 | Self-aligned placement and detection of quantum dots on the tips of individual conical plasmonic nanostructures. Nanoscale, 2015, 7, 14691-14696.                                | 2.8 | 28        |
| 17 | Capturing molecules with plasmonic nanotips in microfluidic channels by dielectrophoresis. Lab on a Chip, 2015, 15, 1066-1071.   | 3.1 | 27        |
| 18 | Fabrication of metallic nanocones by induced deposition of etch masks and ion milling. Microelectronic Engineering, 2011, 88, 2247-2250.   | 1.1 | 24        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Atomic Layer Deposition of Bioactive TiO <sub>2</sub> Thin Films on Polyetheretherketone for Orthopedic Implants. ACS Applied Materials & Interfaces, 2021, 13, 3536-3546.       | 4.0  | 24        |
| 20 | Coupling single quantum dots to plasmonic nanocones: optical properties. Faraday Discussions, 2015, 184, 321-337.  | 1.6  | 22        |
| 21 | Carrier recombination and plasmonic emission channels in metallic photoluminescence. Nanoscale, 2018, 10, 8240-8245.   | 2.8  | 22        |
| 22 | Structure-Transport Correlation Reveals Anisotropic Charge Transport in Coupled PbS Nanocrystal Superlattices. Advanced Materials, 2020, 32, 2002254.                            | 11.1 | 19        |
| 23 | Nanocones on transparent substrates for investigations in scanning probe microscopes. Microelectronic Engineering, 2009, 86, 1219-1221.  | 1.1  | 18        |
| 24 | Plasmonic Vertical Dimer arrays as elements for biosensing. Analytical and Bioanalytical Chemistry, 2015, 407, 8225-8231.  | 1.9  | 18        |
| 25 | Accessing the Hotspots of Cavity Plasmon Modes in Vertical Metal-Insulator-Metal Structures for Surface Enhanced Raman Scattering. Advanced Optical Materials, 2020, 8, 1901734. | 3.6  | 16        |
| 26 | Active optical antennas driven by inelastic electron tunneling. Nanophotonics, 2018, 7, 1503-1516.   | 2.9  | 15        |
| 27 | Fabrication and characterization of combined metallic nanogratings and ITO electrodes for organic photovoltaic cells. Microelectronic Engineering, 2014, 119, 122-126.           | 1.1  | 14        |
| 28 | Plasmonic mode conversion in individual tilted 3D nanostructures. Nanoscale, 2019, 11, 5429-5440.  | 2.8  | 14        |
| 29 | Strong second-harmonic generation from Au-Al heterodimers. Nanoscale, 2019, 11, 23475-23481.   | 2.8  | 13        |
| 30 | Titanium surfaces structured with regular geometry—material investigations and cell morphology. Surface and Interface Analysis, 2010, 42, 497-501.                               | 0.8  | 12        |
| 31 | Time-effective strategies for the fabrication of poly- and single-crystalline gold nano-structures by focused helium ion beam milling. Nanotechnology, 2019, 30, 235302.         | 1.3  | 12        |
| 32 | Single particle dark-field spectroscopy of spherical dimers with down to sub-10 nm gaps fabricated by the annealing of nano-pillars. Nanophotonics, 2018, 7, 1317-1324.          | 2.9  | 10        |
| 33 | Sensitive Interferometric Plasmon Ruler Based on a Single Nanodimer. Journal of Physical Chemistry C, 2021, 125, 6486-6493.  | 1.5  | 10        |
| 34 | A flexible platform for controlled optical and electrical effects in tailored plasmonic break junctions. Nanophotonics, 2020, 9, 1391-1400.                                      | 2.9  | 10        |
| 35 | Self-assembled quasi-hexagonal arrays of gold nanoparticles with small gaps for surface-enhanced Raman spectroscopy. Beilstein Journal of Nanotechnology, 2018, 9, 1977-1985.    | 1.5  | 9         |
| 36 | Miniaturized fractal optical nanoantennas defined by focused helium ion beam milling. Nanotechnology, 2020, 31, 075301.  | 1.3  | 9         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Enhancement of the second harmonic signal of nonlinear crystals by self-assembled gold nanoparticles. <i>Journal of Chemical Physics</i> , 2020, 152, 104711.   | 1.2 | 9         |
| 38 | Mechanically Tunable Nanogap Antennas: Single-Structure Effects and Multi-Structure Applications. <i>Advanced Optical Materials</i> , 2021, 9, 2100326.   | 3.6 | 9         |
| 39 | Relative spectral tuning of the vertical versus base modes in plasmonic nanocones. <i>Nanotechnology</i> , 2019, 30, 415201.  | 1.3 | 8         |
| 40 | Nonlinear plasmonic behavior of nanohole arrays in thin gold films for imaging lipids. <i>Applied Physics Letters</i> , 2018, 112, .  | 1.5 | 7         |
| 41 | Direct phase mapping of the light scattered by single plasmonic nanoparticles. <i>Nanoscale</i> , 2020, 12, 1083-1090.  | 2.8 | 7         |
| 42 | Contactless capturing of particles in liquid using pulsed alternating dielectrophoresis. <i>Journal of Vacuum Science &amp; Technology B</i> , 2006, 24, 3184.  | 1.3 | 6         |
| 43 | Enhancement of the second harmonic signal of nonlinear crystals by a single metal nanoantenna. <i>Nanoscale</i> , 2020, 12, 23105-23115.  | 2.8 | 6         |
| 44 | Overcoming the Rate-Directionality Trade-off: A Room-Temperature Ultrabright Quantum Light Source. <i>ACS Nano</i> , 2021, 15, 17384-17391.   | 7.3 | 6         |
| 45 | Enhanced two-photon photoluminescence assisted by multi-resonant characteristics of a gold nanocylinder. <i>Nanophotonics</i> , 2020, 9, 4009-4019.   | 2.9 | 6         |
| 46 | Self-aligned gold nanocone probe tips. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, C6O34-C6O37.  | 0.6 | 5         |
| 47 | Microellipsometry study of plasmonic properties of metal-insulator-metal structures with ordered lattices of nanoparticles. <i>Journal of Applied Physics</i> , 2021, 129, 123104.                          | 1.1 | 5         |
| 48 | Enhancing light absorption in organic semiconductor thin films by one-dimensional gold nanowire gratings. <i>Physical Review Materials</i> , 2017, 1, .   | 0.9 | 5         |
| 49 | Catalyst patterning for carbon nanotube growth on elevating posts by self-aligned double-layer electron beam lithography. <i>Journal of Vacuum Science &amp; Technology B</i> , 2008, 26, 2447-2450.        | 1.3 | 4         |
| 50 | Template stripping and bonding of smooth probes with nanoscale features for tip-enhanced Raman spectroscopy. <i>Microelectronic Engineering</i> , 2017, 171, 31-36.   | 1.1 | 4         |
| 51 | Nanoscale plasmonic phase sensor. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3405-3411.   | 1.9 | 4         |
| 52 | Hexagonal arrays of plasmonic gold nanopyramids on flexible substrates for surface-enhanced Raman scattering. <i>Nanotechnology</i> , 2022, 33, 095303.   | 1.3 | 4         |
| 53 | Nanosphere Lithography: Parallel Fabrication of Plasmonic Nanocone Sensing Arrays ( <i>Small</i> 23/2013). <i>Small</i> , 2013, 9, 4088-4088.   | 5.2 | 3         |
| 54 | Shaping and polarizing fluorescence emission of a polycrystalline organic semiconductor film by plasmonic nanogratings. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, E9. | 0.9 | 3         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | Arrays of Well-Defined Size-Tunable Metallic Nano-Cones for Plasmonic Applications. Materials Research Society Symposia Proceedings, 2007, 1055, 4.                                  | 0.1 | 2         |
| 56 | Carbon nanotubes grown on polyimide by chemical vapour deposition. , 2012, , .   |     | 2         |
| 57 | Selectively accessing the hotspots of optical nanoantennas by self-aligned dry laser ablation. Nanoscale, 2020, 12, 19170-19177.   | 2.8 | 2         |
| 58 | Optically and electrically driven nanoantennas. Beilstein Journal of Nanotechnology, 2020, 11, 1542-1545.  | 1.5 | 1         |
| 59 | Graphite/graphene grown on molybdenum via CVD. , 2015, , .   |     | 0         |
| 60 | Linear and non-linear optical properties of plasmonic nano-antennas. , 2016, , .   |     | 0         |
| 61 | Mechanically Tunable Nanogap Antennas: Single-Structure Effects and Multi-Structure Applications (Advanced Optical Materials 20/2021). Advanced Optical Materials, 2021, 9, 2170082. | 3.6 | 0         |
| 62 | Second harmonic generation enhancement by polarization-matched nanostructures -INVITED. EPJ Web of Conferences, 2020, 238, 05001.  | 0.1 | 0         |