

Jerome Wenger

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3422823/jerome-wenger-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119
papers

6,015
citations

41
h-index

76
g-index

131
ext. papers

6,895
ext. citations

7
avg, IF

5.69
L-index

| # | Paper | IF | Citations |
|-----|---|-------|-----------|
| 119 | Ultraviolet optical horn antennas for label-free detection of single proteins.. <i>Nature Communications</i> , 2022 , 13, 1842 | 17.4 | 2 |
| 118 | Fast interaction dynamics of G-quadruplex and RGG-rich peptides unveiled in zero-mode waveguides. <i>Nucleic Acids Research</i> , 2021 , 49, 12348-12357 | 20.1 | 0 |
| 117 | Complete Electromagnetic Dyadic Green Function Characterization in a Complex Environment Resonant Dipole-Dipole Interaction and Cooperative Effects. <i>Physical Review X</i> , 2021 , 11, | 9.1 | 2 |
| 116 | Preventing Corrosion of Aluminum Metal with Nanometer-Thick Films of Al ₂ O ₃ Capped with TiO ₂ for Ultraviolet Plasmonics. <i>ACS Applied Nano Materials</i> , 2021 , 4, 7199-7205 | 5.6 | 4 |
| 115 | Plasmonic nano-optical trap stiffness measurements and design optimization. <i>Nanoscale</i> , 2021 , 13, 4188-4194 | 7.194 | 5 |
| 114 | Purcell radiative rate enhancement of label-free proteins with ultraviolet aluminum plasmonics. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 425101 | 3 | 3 |
| 113 | Insights into animal septins using recombinant human septin octamers with distinct SEPT9 isoforms. <i>Journal of Cell Science</i> , 2021 , 134, | 5.3 | 6 |
| 112 | Single Photon Source from a Nanoantenna-Trapped Single Quantum Dot. <i>Nano Letters</i> , 2021 , 21, 7030-7036 | 10.6 | 11 |
| 111 | Single-molecule Detection of Ultrafast Biomolecular Dynamics with Nanophotonics.. <i>Journal of the American Chemical Society</i> , 2021 , | 16.4 | 2 |
| 110 | Calcium activates purified human TRPA1 with and without its N-terminal ankyrin repeat domain in the absence of calmodulin. <i>Cell Calcium</i> , 2020 , 90, 102228 | 4 | 7 |
| 109 | Long-Range Single-Molecule Förster Resonance Energy Transfer between Alexa Dyes in Zero-Mode Waveguides. <i>ACS Omega</i> , 2020 , 5, 6947-6955 | 3.9 | 3 |
| 108 | Ultraviolet Photostability Improvement for Autofluorescence Correlation Spectroscopy on Label-Free Proteins. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2027-2035 | 6.4 | 10 |
| 107 | Surface passivation of zero-mode waveguide nanostructures: benchmarking protocols and fluorescent labels. <i>Scientific Reports</i> , 2020 , 10, 5235 | 4.9 | 7 |
| 106 | Fabrication of spectrally sharp Si-based dielectric resonators: combining etaloning with Mie resonances. <i>Optics Express</i> , 2020 , 28, 37734-37742 | 3.3 | 4 |
| 105 | Nanoscale control of single molecule Förster resonance energy transfer by a scanning photonic nanoantenna. <i>Nanophotonics</i> , 2020 , 9, 4021-4031 | 6.3 | 5 |
| 104 | Adhesion layer influence on controlling the local temperature in plasmonic gold nanoholes. <i>Nanoscale</i> , 2020 , 12, 2524-2531 | 7.7 | 8 |
| 103 | Flexible photonic devices based on dielectric antennas. <i>JPhys Photonics</i> , 2020 , 2, 015002 | 2.5 | 5 |

| | | | |
|-----|---|------|----|
| 102 | CMOS-compatible all-dielectric metalens for improving pixel photodetector arrays. <i>APL Photonics</i> , 2020 , 5, 116105 | 5.2 | 8 |
| 101 | Quantifying the Role of the Surfactant and the Thermophoretic Force in Plasmonic Nano-optical Trapping. <i>Nano Letters</i> , 2020 , 20, 8811-8817 | 11.5 | 24 |
| 100 | Zero-mode waveguides can be made better: fluorescence enhancement with rectangular aluminum nanoapertures from the visible to the deep ultraviolet. <i>Nanoscale Advances</i> , 2020 , 2, 4153-4160 | 5.1 | 8 |
| 99 | Hyperuniform Monocrystalline Structures by Spinodal Solid-State Dewetting. <i>Physical Review Letters</i> , 2020 , 125, 126101 | 7.4 | 5 |
| 98 | Preventing Aluminum Photocorrosion for Ultraviolet Plasmonics. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5700-5707 | 6.4 | 12 |
| 97 | Deep Ultraviolet Plasmonic Enhancement of Single Protein Autofluorescence in Zero-Mode Waveguides. <i>Nano Letters</i> , 2019 , 19, 7434-7442 | 11.5 | 23 |
| 96 | Temperature Measurement in Plasmonic Nanoapertures Used for Optical Trapping. <i>ACS Photonics</i> , 2019 , 6, 1763-1773 | 6.3 | 35 |
| 95 | Direct Imaging of the Energy-Transfer Enhancement between Two Dipoles in a Photonic Cavity. <i>Physical Review X</i> , 2019 , 9, | 9.1 | 12 |
| 94 | Structural diffusion properties of two atypical Dps from the cyanobacterium <i>Nostoc punctiforme</i> disclose interactions with ferredoxins and DNA. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019 , 1860, 148063 | 4.6 | 6 |
| 93 | Extending Single-Molecule Förster Resonance Energy Transfer (FRET) Range beyond 10 Nanometers in Zero-Mode Waveguides. <i>ACS Nano</i> , 2019 , 13, 8469-8480 | 16.7 | 30 |
| 92 | Fluorescence Spectroscopy Enhancement on Photonic Nanoantennas 2019 , 139-158 | | |
| 91 | Compressed perovskite aqueous mixtures near their phase transitions show very high permittivities: New prospects for high-field MRI dielectric shimming. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 1753-1765 | 4.4 | 14 |
| 90 | Laser-induced fluorescence quenching of red fluorescent dyes with green excitation: Avoiding artifacts in PIE-FRET and FCCS analysis. <i>Chemical Physics Letters</i> , 2018 , 706, 669-674 | 2.5 | 0 |
| 89 | High-resolution multimodal flexible coherent Raman endoscope. <i>Light: Science and Applications</i> , 2018 , 7, 10 | 16.7 | 67 |
| 88 | Optical Antenna-Based Fluorescence Correlation Spectroscopy to Probe the Nanoscale Dynamics of Biological Membranes. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 110-119 | 6.4 | 28 |
| 87 | Single-Step DNA Detection Assay Monitoring Dual-Color Light Scattering from Individual Metal Nanoparticle Aggregates. <i>ACS Sensors</i> , 2017 , 2, 251-256 | 9.2 | 11 |
| 86 | In-Plane Plasmonic Antenna Arrays with Surface Nanogaps for Giant Fluorescence Enhancement. <i>Nano Letters</i> , 2017 , 17, 1703-1710 | 11.5 | 90 |
| 85 | Planar Optical Nanoantennas Resolve Cholesterol-Dependent Nanoscale Heterogeneities in the Plasma Membrane of Living Cells. <i>Nano Letters</i> , 2017 , 17, 6295-6302 | 11.5 | 32 |

| | | | |
|----|---|------|-----|
| 84 | Transient Nanoscopic Phase Separation in Biological Lipid Membranes Resolved by Planar Plasmonic Antennas. <i>ACS Nano</i> , 2017 , 11, 7241-7250 | 16.7 | 28 |
| 83 | Single-step homogeneous immunoassay for detecting prostate-specific antigen using dual-color light scattering of metal nanoparticles. <i>Analyst, The</i> , 2017 , 142, 3484-3491 | 5 | 9 |
| 82 | Plasmonic Nanoantennas Enable Forbidden Förster Dipole-Dipole Energy Transfer and Enhance the FRET Efficiency. <i>Nano Letters</i> , 2016 , 16, 6222-6230 | 11.5 | 54 |
| 81 | All-Dielectric Silicon Nanogap Antennas To Enhance the Fluorescence of Single Molecules. <i>Nano Letters</i> , 2016 , 16, 5143-51 | 11.5 | 147 |
| 80 | Differential conformational modulations of MreB folding upon interactions with GroEL/ES and TRiC chaperonin components. <i>Scientific Reports</i> , 2016 , 6, 28386 | 4.9 | 2 |
| 79 | Coupling Emitters and Silver Nanowires to Achieve Long-Range Plasmon-Mediated Fluorescence Energy Transfer. <i>ACS Nano</i> , 2016 , 10, 3968-76 | 16.7 | 50 |
| 78 | Picosecond Lifetimes with High Quantum Yields from Single-Photon-Emitting Colloidal Nanostructures at Room Temperature. <i>ACS Nano</i> , 2016 , 10, 4806-15 | 16.7 | 42 |
| 77 | Roadmap on biosensing and photonics with advanced nano-optical methods. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 063003 | 1.7 | 46 |
| 76 | Competition between Förster Resonance Energy Transfer and Donor Photodynamics in Plasmonic Dimer Nanoantennas. <i>ACS Photonics</i> , 2016 , 3, 895-903 | 6.3 | 51 |
| 75 | Optimizing Nanoparticle Designs for Ideal Absorption of Light. <i>ACS Photonics</i> , 2015 , 2, 263-270 | 6.3 | 53 |
| 74 | Three-dimensional nanometre localization of nanoparticles to enhance super-resolution microscopy. <i>Nature Communications</i> , 2015 , 6, 7764 | 17.4 | 46 |
| 73 | Self-Assembled Nanoparticle Dimer Antennas for Plasmonic-Enhanced Single-Molecule Fluorescence Detection at Micromolar Concentrations. <i>ACS Photonics</i> , 2015 , 2, 1099-1107 | 6.3 | 91 |
| 72 | FRET analysis of CP12 structural interplay by GAPDH and PRK. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 458, 488-493 | 3.4 | 10 |
| 71 | Matching Nanoantenna Field Confinement to FRET Distances Enhances Förster Energy Transfer Rates. <i>Nano Letters</i> , 2015 , 15, 6193-201 | 11.5 | 63 |
| 70 | Nanoscale volume confinement and fluorescence enhancement with double nanohole aperture. <i>Scientific Reports</i> , 2015 , 5, 15852 | 4.9 | 45 |
| 69 | FRET enhancement in aluminum zero-mode waveguides. <i>ChemPhysChem</i> , 2015 , 16, 782-8 | 3.2 | 37 |
| 68 | Plasmonic antennas and zero-mode waveguides to enhance single molecule fluorescence detection and fluorescence correlation spectroscopy toward physiological concentrations. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2014 , 6, 268-82 | 9.2 | 43 |
| 67 | Nanophotonic enhancement of the Förster resonance energy-transfer rate with single nanoapertures. <i>Nano Letters</i> , 2014 , 14, 4707-14 | 11.5 | 69 |

| | | | |
|----|---|------|-----|
| 66 | Singular analysis to homogenize planar metamaterials as nonlocal effective media. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 5 |
| 65 | Conformational modulation and hydrodynamic radii of CP12 protein and its complexes probed by fluorescence correlation spectroscopy. <i>FEBS Journal</i> , 2014 , 281, 3206-17 | 5.7 | 13 |
| 64 | Multi-focus parallel detection of fluorescent molecules at picomolar concentration with photonic nanojets arrays. <i>Applied Physics Letters</i> , 2014 , 105, 131102 | 3.4 | 26 |
| 63 | Optimization of resonant effects in nanostructures via Weierstrass factorization. <i>Physical Review A</i> , 2013 , 88, | 2.6 | 42 |
| 62 | Singular analysis of Fano resonances in plasmonic nanostructures. <i>Physical Review A</i> , 2013 , 88, | 2.6 | 24 |
| 61 | Plasmonic band structure controls single-molecule fluorescence. <i>ACS Nano</i> , 2013 , 7, 8840-8 | 16.7 | 55 |
| 60 | A plasmonic antenna-in-box platform for enhanced single-molecule analysis at micromolar concentrations. <i>Nature Nanotechnology</i> , 2013 , 8, 512-6 | 28.7 | 248 |
| 59 | Gold nanoparticles for enhanced single molecule fluorescence analysis at micromolar concentration. <i>Optics Express</i> , 2013 , 21, 27338-43 | 3.3 | 33 |
| 58 | Strong three-dimensional field localization and enhancement on deep sinusoidal gratings with two-dimensional periodicity. <i>Optics Letters</i> , 2013 , 38, 4876-9 | 3 | 3 |
| 57 | Photonic Engineering of Hybrid Metal-Organic Chromophores. <i>Angewandte Chemie</i> , 2012 , 124, 11245-11249 | 3.49 | 2 |
| 56 | Photonic engineering of hybrid metal-organic chromophores. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11083-7 | 16.4 | 24 |
| 55 | Photonic nanojet focusing for hollow-core photonic crystal fiber probes. <i>Applied Optics</i> , 2012 , 51, 8637-40 | 4.7 | 5 |
| 54 | Fluorescence Enhancement Factors on Optical Antennas: Enlarging the Experimental Values without Changing the Antenna Design. <i>International Journal of Optics</i> , 2012 , 2012, 1-7 | 0.9 | 14 |
| 53 | Fluorescence correlation spectroscopy. <i>BioEssays</i> , 2012 , 34, 361-8 | 4.1 | 172 |
| 52 | Kagome hollow-core photonic crystal fiber probe for Raman spectroscopy. <i>Optics Letters</i> , 2012 , 37, 4371-3 | 13.3 | 44 |
| 51 | Saturated excitation of fluorescence to quantify excitation enhancement in aperture antennas. <i>Optics Express</i> , 2012 , 20, 18085-90 | 3.3 | 4 |
| 50 | Hollow-core photonic crystal fiber probe for remote fluorescence sensing with single molecule sensitivity. <i>Optics Express</i> , 2012 , 20, 28379-87 | 3.3 | 17 |
| 49 | Imaging the Gouy phase shift in photonic jets with a wavefront sensor. <i>Optics Letters</i> , 2012 , 37, 3531-3 | 3 | 10 |

| | | | |
|----|---|------|-----|
| 48 | Excitation enhancement of a quantum dot coupled to a plasmonic antenna. <i>Advanced Materials</i> , 2012 , 24, OP314-20 | 24 | 67 |
| 47 | FCS diffusion laws in two-phase lipid membranes: determination of domain mean size by experiments and Monte Carlo simulations. <i>Biophysical Journal</i> , 2011 , 100, 1242-51 | 2.9 | 32 |
| 46 | Plasmonic antennas for directional sorting of fluorescence emission. <i>Nano Letters</i> , 2011 , 11, 2400-6 | 11.5 | 150 |
| 45 | Large molecular fluorescence enhancement by a nanoaperture with plasmonic corrugations. <i>Optics Express</i> , 2011 , 19, 13056-62 | 3.3 | 22 |
| 44 | Deciphering fluorescence signals by quantifying separately the excitation intensity from the number of emitters. <i>Optics Letters</i> , 2011 , 36, 3317-9 | 3 | 1 |
| 43 | Bright unidirectional fluorescence emission of molecules in a nanoaperture with plasmonic corrugations. <i>Nano Letters</i> , 2011 , 11, 637-44 | 11.5 | 228 |
| 42 | Fluorescence correlation spectroscopy. <i>Methods in Molecular Biology</i> , 2011 , 783, 181-95 | 1.4 | 1 |
| 41 | Enhancing Fluorescence with Sub-Wavelength Metallic Apertures 2010 , 489-527 | | 1 |
| 40 | Photonic methods to enhance fluorescence correlation spectroscopy and single molecule fluorescence detection. <i>International Journal of Molecular Sciences</i> , 2010 , 11, 206-21 | 6.3 | 39 |
| 39 | Surface Enhanced Raman Scattering on a Single Nanometric Aperture. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 16250-16256 | 3.8 | 30 |
| 38 | Colloidal quantum dots as probes of excitation field enhancement in photonic antennas. <i>ACS Nano</i> , 2010 , 4, 4571-8 | 16.7 | 27 |
| 37 | Two-photon fluorescence correlation spectroscopy with high count rates and low background using dielectric microspheres. <i>Biomedical Optics Express</i> , 2010 , 1, 1075-1083 | 3.5 | 13 |
| 36 | Enhanced second-harmonic generation from individual metallic nanoapertures. <i>Optics Letters</i> , 2010 , 35, 4063-5 | 3 | 34 |
| 35 | Enhanced fluorescence from metal nanoapertures: physical characterizations and biophotonic applications 2010 , | | 8 |
| 34 | High-efficiency single molecule fluorescence detection and correlation spectroscopy with dielectric microspheres 2010 , | | 5 |
| 33 | Transverse and longitudinal confinement of photonic nanojets by compound dielectric microspheres 2009 , | | 5 |
| 32 | Crucial role of the adhesion layer on the plasmonic fluorescence enhancement. <i>ACS Nano</i> , 2009 , 3, 2043-8 | 6.7 | 129 |
| 31 | Nanoaperture-enhanced signal-to-noise ratio in fluorescence correlation spectroscopy. <i>Analytical Chemistry</i> , 2009 , 81, 834-9 | 7.8 | 41 |

| | | | |
|----|---|-----|-----|
| 30 | Efficient excitation and collection of single-molecule fluorescence close to a dielectric microsphere. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009 , 26, 1473 | 1.7 | 57 |
| 29 | Three-dimensional subwavelength confinement of light with dielectric microspheres. <i>Optics Express</i> , 2009 , 17, 2089-94 | 3.3 | 104 |
| 28 | Optical-fiber-microsphere for remote fluorescence correlation spectroscopy. <i>Optics Express</i> , 2009 , 17, 19085-92 | 3.3 | 41 |
| 27 | Biophotonics applications of nanometric apertures. <i>International Journal of Materials and Product Technology</i> , 2009 , 34, 488 | 1 | 5 |
| 26 | Field enhancement in a circular aperture surrounded by a single channel groove. <i>Optics Express</i> , 2008 , 16, 2276-87 | 3.3 | 25 |
| 25 | Emission and excitation contributions to enhanced single molecule fluorescence by gold nanometric apertures. <i>Optics Express</i> , 2008 , 16, 3008-20 | 3.3 | 110 |
| 24 | Direct imaging of photonic nanojets. <i>Optics Express</i> , 2008 , 16, 6930-40 | 3.3 | 212 |
| 23 | Strong electromagnetic confinement near dielectric microspheres to enhance single-molecule fluorescence. <i>Optics Express</i> , 2008 , 16, 15297-303 | 3.3 | 89 |
| 22 | Nanoaperture-enhanced fluorescence: Towards higher detection rates with plasmonic metals. <i>Physical Review B</i> , 2008 , 77, | 3.3 | 82 |
| 21 | Disposable microscope objective lenses for fluorescence correlation spectroscopy using latex microspheres. <i>Analytical Chemistry</i> , 2008 , 80, 6800-4 | 7.8 | 41 |
| 20 | Fluorescence fluctuations analysis in nanoapertures: physical concepts and biological applications. <i>Histochemistry and Cell Biology</i> , 2008 , 130, 795-805 | 2.4 | 13 |
| 19 | Diffusion analysis within single nanometric apertures reveals the ultrafine cell membrane organization. <i>Biophysical Journal</i> , 2007 , 92, 913-9 | 2.9 | 137 |
| 18 | Radiative and Nonradiative Photokinetics Alteration Inside a Single Metallic Nanometric Aperture. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 11469-11474 | 3.8 | 21 |
| 17 | Single-scattering theory of light diffraction by a circular subwavelength aperture in a finitely conducting screen. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007 , 24, 339-58 | 1.8 | 16 |
| 16 | Experimental Non-Gaussian Manipulation of Continuous Variables 2007 , 389-408 | | |
| 15 | Field enhancement in single subwavelength apertures. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006 , 23, 2342-8 | 1.8 | 39 |
| 14 | Dual-color fluorescence cross-correlation spectroscopy in a single nanoaperture : towards rapid multicomponent screening at high concentrations. <i>Optics Express</i> , 2006 , 14, 12206-16 | 3.3 | 38 |
| 13 | Raman scattering and fluorescence emission in a single nanoaperture: Optimizing the local intensity enhancement. <i>Optics Communications</i> , 2006 , 267, 224-228 | 2 | 23 |

| | | | |
|----|---|------|-----|
| 12 | Single-fluorophore diffusion in a lipid membrane over a subwavelength aperture. <i>Journal of Biological Physics</i> , 2006 , 32, SN1-4 | 1.6 | 33 |
| 11 | Enhancement of single-molecule fluorescence detection in subwavelength apertures. <i>Physical Review Letters</i> , 2005 , 95, 117401 | 7.4 | 182 |
| 10 | Single molecule fluorescence in rectangular nano-apertures. <i>Optics Express</i> , 2005 , 13, 7035-44 | 3.3 | 60 |
| 9 | Time-resolved homodyne characterization of individual quadrature-entangled pulses. <i>European Physical Journal D</i> , 2005 , 32, 391-396 | 1.3 | 42 |
| 8 | Pulsed squeezed vacuum measurements without homodyning. <i>Physical Review A</i> , 2004 , 70, | 2.6 | 29 |
| 7 | Non-Gaussian statistics from individual pulses of squeezed light. <i>Physical Review Letters</i> , 2004 , 92, 153601 | 7.4 | 297 |
| 6 | Pulsed homodyne measurements of femtosecond squeezed pulses generated by single-pass parametric deamplification. <i>Optics Letters</i> , 2004 , 29, 1267-9 | 3 | 50 |
| 5 | Proposal for a loophole-free Bell test using homodyne detection. <i>Physical Review Letters</i> , 2004 , 93, 130409 | 7.4 | 204 |
| 4 | Quantum key distribution using gaussian-modulated coherent states. <i>Nature</i> , 2003 , 421, 238-41 | 50.4 | 865 |
| 3 | Maximal violation of Bell inequalities using continuous-variable measurements. <i>Physical Review A</i> , 2003 , 67, | 2.6 | 101 |
| 2 | Virtual entanglement and reconciliation protocols for quantum cryptography with continuous variables. <i>Quantum Information and Computation</i> , 2003 , 3, 535-552 | 0.9 | 148 |
| 1 | Calcium activates purified human TRPA1 with and without its N-terminal ankyrin repeat domain in the absence of calmodulin | | 1 |