

Jost Adam

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1042002/publications.pdf>

Version: 2024-02-01

62
papers

1,107
citations

516561

16
h-index

395590

33
g-index

62
all docs

62
docs citations

62
times ranked

1565
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | High-throughput single-microparticle imaging flow analyzer. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11630-11635. | 3.3 | 333 |
| 2 | Hybrid Dispersion Laser Scanner. Scientific Reports, 2012, 2, 445. | 1.6 | 82 |
| 3 | The role of Ge ₂ Sb ₂ Te ₅ in enhancing the performance of functional plasmonic devices. Materials Today Physics, 2020, 12, 100178. | 2.9 | 82 |
| 4 | Photodeposition of Au Nanoclusters for Enhanced Photocatalytic Dye Degradation over TiO ₂ Thin Film. ACS Applied Materials & Interfaces, 2020, 12, 14983-14992. | 4.0 | 75 |
| 5 | Piezoresistive Response of Quasi-One-Dimensional ZnO Nanowires Using an in Situ Electromechanical Device. ACS Omega, 2017, 2, 2985-2993. | 1.6 | 72 |
| 6 | Role of UV Plasmonics in the Photocatalytic Performance of TiO ₂ Decorated with Aluminum Nanoparticles. ACS Applied Nano Materials, 2018, 1, 3760-3764. | 2.4 | 35 |
| 7 | A flower-like ZnO@Ag ₂ O nanocomposite for label and mediator free direct sensing of dinitrotoluene. RSC Advances, 2020, 10, 27764-27774. | 1.7 | 30 |
| 8 | Progress in electronics and photonics with nanomaterials. Vacuum, 2017, 146, 304-307. | 1.6 | 27 |
| 9 | The influence of electrical effects on device performance of organic solar cells with nano-structured electrodes. Scientific Reports, 2017, 7, 5300. | 1.6 | 26 |
| 10 | Plasmonic and non-plasmonic contributions on photocatalytic activity of Au-TiO ₂ thin film under mixed UV-visible light. Surface and Coatings Technology, 2020, 389, 125613. | 2.2 | 26 |
| 11 | Cauliflower-like CeO ₂ @TiO ₂ hybrid nanostructures with extreme photocatalytic and self-cleaning properties. Nanoscale, 2019, 11, 9840-9844. | 2.8 | 24 |
| 12 | Modeling Multijunction Solar Cells by Nonlocal Tunneling and Subcell Analysis. IEEE Journal of Photovoltaics, 2018, 8, 1363-1369. | 1.5 | 23 |
| 13 | Infrared plasmonic photodetectors: the emergence of high photon yield toroidal metadevices. Materials Today Chemistry, 2019, 14, 100206. | 1.7 | 22 |
| 14 | Compact, transmissive two-dimensional spatial disperser design with application in simultaneous endoscopic imaging and laser microsurgery. Applied Optics, 2014, 53, 376. | 0.9 | 21 |
| 15 | Photocatalytic Growth of Hierarchical Au Needle Clusters on Highly Active TiO ₂ Thin Film. Advanced Materials Interfaces, 2018, 5, 1800465. | 1.9 | 21 |
| 16 | Numerical analysis on effects of experimental Ga grading on Cu(In,Ga)Se ₂ solar cell performance. Journal of Physics and Chemistry of Solids, 2018, 120, 190-196. | 1.9 | 19 |
| 17 | Revisiting the Optical Dispersion of Aluminum-Doped Zinc Oxide: New Perspectives for Plasmonics and Metamaterials. Advanced Photonics Research, 2021, 2, 2000086. | 1.7 | 16 |
| 18 | Tunable elastomer-based virtually imaged phased array. Optics Express, 2013, 21, 3324. | 1.7 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Zirconium Nitride: Optical Properties of an Emerging Intermetallic for Plasmonic Applications. <i>Advanced Photonics Research</i> , 2021, 2, 2100178. | 1.7 | 15 |
| 20 | Simulation methods for multiperiodic and aperiodic nanostructured dielectric waveguides. <i>Optical and Quantum Electronics</i> , 2017, 49, 107. | 1.5 | 14 |
| 21 | Magnetic films for electromagnetic actuation in MEMS switches. <i>Microsystem Technologies</i> , 2018, 24, 1987-1994. | 1.2 | 14 |
| 22 | Multi-periodic nanostructures for photon control. <i>Optics Express</i> , 2014, 22, A1363. | 1.7 | 13 |
| 23 | Spectrally encoded angular light scattering. <i>Optics Express</i> , 2013, 21, 28960. | 1.7 | 11 |
| 24 | 3D ultrafast laser scanner. <i>Proceedings of SPIE</i> , 2013, , . | 0.8 | 10 |
| 25 | Numerical Multipole Analysis of Ultrawideband Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2010, 58, 3847-3855. | 3.1 | 8 |
| 26 | Optimizing Piezoelectric Cantilever Design for Electronic Nose Applications. <i>Chemosensors</i> , 2020, 8, 114. | 1.8 | 8 |
| 27 | Optical Waveguides with Compound Multiperiodic Grating Nanostructures for Refractive Index Sensing. <i>Journal of Sensors</i> , 2016, 2016, 1-11. | 0.6 | 6 |
| 28 | Efficient evaluation of antenna fields by a time-domain multipole analysis. <i>Advances in Radio Science</i> , 0, 7, 43-48. | 0.7 | 6 |
| 29 | Argumentâ€recursive computation of Legendre polynomials and its application to the time domain nearâ€toâ€farâ€field sphericalâ€multipole analysis. <i>Radio Science</i> , 2009, 44, . | 0.8 | 5 |
| 30 | Excitation of surface plasmon polaritons by fluorescent light from organic nanofibers. <i>Optics Communications</i> , 2017, 402, 630-634. | 1.0 | 5 |
| 31 | Nanoscale aluminum concaves for light-trapping in organic thin-films. <i>Optics Communications</i> , 2016, 370, 135-139. | 1.0 | 4 |
| 32 | Photo-induced degradation mechanisms in 4P-NPD thin films. <i>Organic Electronics</i> , 2018, 63, 114-119. | 1.4 | 4 |
| 33 | Real-time image processor for detection of rare cells and particles in flow at 37 MHz line scans per second. , 2013, , . | | 3 |
| 34 | Online optimization of different objectives in robotic sailing: Simulations and experiments. , 2015, , . | | 3 |
| 35 | Radiofrequency encoded angular-resolved light scattering. <i>Applied Physics Letters</i> , 2015, 106, 123701. | 1.5 | 3 |
| 36 | Periodically arranged colloidal gold nanoparticles for enhanced light harvesting in organic solar cells. , 2016, , . | | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Optical properties of nanowire metamaterials with gain. Optics Communications, 2016, 379, 25-31. | 1.0 | 3 |
| 38 | Plasmon-organic fiber interactions in diamond-like carbon coated nanostructured gold films. Optics Communications, 2017, 402, 635-640. | 1.0 | 3 |
| 39 | Surface Plasmons in Silicon Nanowires. Advanced Photonics Research, 2021, 2, 2100130. | 1.7 | 3 |
| 40 | Argument-Recursive Computation of Legendre Polynomials with Applications in Computational Electromagnetics. , 2006, , . | | 2 |
| 41 | Time-stretch accelerated processor for real-time, in-service, signal analysis. , 2014, , . | | 2 |
| 42 | Designing new ferromagnetic double perovskites: the coexistence of polar distortion and half-metallicity. Physical Chemistry Chemical Physics, 2021, 23, 19571-19578. | 1.3 | 2 |
| 43 | Revisiting the Optical Dispersion of Aluminum-Doped Zinc Oxide: New Perspectives for Plasmonics and Metamaterials. Advanced Photonics Research, 2021, 2, 2170011. | 1.7 | 2 |
| 44 | Elastomer-based tunable virtually imaged phased array for reconfigurable optical interconnects. , 2013, , . | | 1 |
| 45 | On the effect of broadband, multi-angular excitation and detection in guided-mode resonance biosensors. Proceedings of SPIE, 2014, , . | 0.8 | 1 |
| 46 | Silicon photonics cloud (SiCloud). , 2015, , . | | 1 |
| 47 | Simulation of photonic waveguides with deterministic aperiodic nanostructures for biosensing. , 2016, , . | | 1 |
| 48 | Hierarchical Structures: Photocatalytic Growth of Hierarchical Au Needle Clusters on Highly Active TiO ₂ Thin Film (Adv. Mater. Interfaces 15/2018). Advanced Materials Interfaces, 2018, 5, 1870074. | 1.9 | 1 |
| 49 | Study of the Molecule Adsorption Process during the Molecular Doping. Nanomaterials, 2021, 11, 1899. | 1.9 | 1 |
| 50 | Numerical analysis of antenna fields using multipole expansions. , 2006, , . | | 0 |
| 51 | Far field calculations and experimental characterization of nanostructured OLEDs. , 2009, , . | | 0 |
| 52 | Miniaturized optical fiber endoscope without inertial scan for simultaneous imaging and laser microsurgery. , 2013, , . | | 0 |
| 53 | Thermally tunable optical aperture based on a segmented thin-film resonator. , 2014, , . | | 0 |
| 54 | Multi-Periodic Photonic Crystal Out-Coupling Layers for Flexible OLEDs. , 2014, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Time-stretched spectrally encoded angular light scattering for high-throughput real-time diagnostics. Proceedings of SPIE, 2014, , . | 0.8 | 0 |
| 56 | Wavelength dependency of outcoupling peak intensities for emission layers with multi-periodic photonic crystals. , 2014, , . | | 0 |
| 57 | Nanoscale concave structures for field enhancement in organic thin films. , 2015, , . | | 0 |
| 58 | Surface plasmons excited by the photoluminescence of organic nanofibers in hybrid plasmonic systems. Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 59 | Propagation properties of silver nanowires embedded in a substrate with gain. , 2016, , . | | 0 |
| 60 | Single-Mode to Multi-Mode Crossover in Thin-Load Polymethyl Methacrylate Plasmonic Waveguides. Plasmonics, 2018, 13, 1441-1448. | 1.8 | 0 |
| 61 | SiCloud: an online education tool for silicon photonics. , 2017, , . | | 0 |
| 62 | Para-hexaphenylene (p-6P) nanofibers grown on a silver surface for polarization-insensitive surface plasmon polariton excitation. Optics Communications, 2022, 511, 127995. | 1.0 | 0 |