

Jost Adam

List of Publications by Year in descending order

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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	Para-hexaphenylene (p-6P) nanofibers grown on a silver surface for polarization-insensitive surface plasmon polariton excitation. <i>Optics Communications</i> , 2022, 511, 127995.	1.0	0
2	Revisiting the Optical Dispersion of Aluminum-Doped Zinc Oxide: New Perspectives for Plasmonics and Metamaterials. <i>Advanced Photonics Research</i> , 2021, 2, 2000086.	1.7	16
3	Designing new ferromagnetic double perovskites: the coexistence of polar distortion and half-metallicity. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19571-19578.	1.3	2
4	Revisiting the Optical Dispersion of Aluminum-Doped Zinc Oxide: New Perspectives for Plasmonics and Metamaterials. <i>Advanced Photonics Research</i> , 2021, 2, 2170011.	1.7	2
5	Study of the Molecule Adsorption Process during the Molecular Doping. <i>Nanomaterials</i> , 2021, 11, 1899.	1.9	1
6	Zirconium Nitride: Optical Properties of an Emerging Intermetallic for Plasmonic Applications. <i>Advanced Photonics Research</i> , 2021, 2, 2100178.	1.7	15
7	Surface Plasmons in Silicon Nanowires. <i>Advanced Photonics Research</i> , 2021, 2, 2100130.	1.7	3
8	Optimizing Piezoelectric Cantilever Design for Electronic Nose Applications. <i>Chemosensors</i> , 2020, 8, 114.	1.8	8
9	A flower-like ZnO-Ag ₂ O nanocomposite for label and mediator free direct sensing of dinitrotoluene. <i>RSC Advances</i> , 2020, 10, 27764-27774.	1.7	30
10	Plasmonic and non-plasmonic contributions on photocatalytic activity of Au-TiO ₂ thin film under mixed UV-visible light. <i>Surface and Coatings Technology</i> , 2020, 389, 125613.	2.2	26
11	Photodeposition of Au Nanoclusters for Enhanced Photocatalytic Dye Degradation over TiO ₂ Thin Film. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14983-14992.	4.0	75
12	The role of Ge ₂ Sb ₂ Te ₅ in enhancing the performance of functional plasmonic devices. <i>Materials Today Physics</i> , 2020, 12, 100178.	2.9	82
13	Infrared plasmonic photodetectors: the emergence of high photon yield toroidal metadevices. <i>Materials Today Chemistry</i> , 2019, 14, 100206.	1.7	22
14	Cauliflower-like CeO ₂ -TiO ₂ hybrid nanostructures with extreme photocatalytic and self-cleaning properties. <i>Nanoscale</i> , 2019, 11, 9840-9844.	2.8	24
15	Numerical analysis on effects of experimental Ga grading on Cu(In,Ga)Se ₂ solar cell performance. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 120, 190-196.	1.9	19
16	Magnetic films for electromagnetic actuation in MEMS switches. <i>Microsystem Technologies</i> , 2018, 24, 1987-1994.	1.2	14
17	Single-Mode to Multi-Mode Crossover in Thin-Load Polymethyl Methacrylate Plasmonic Waveguides. <i>Plasmonics</i> , 2018, 13, 1441-1448.	1.8	0
18	Photo-induced degradation mechanisms in 4P-NPD thin films. <i>Organic Electronics</i> , 2018, 63, 114-119.	1.4	4

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19	Photocatalytic Growth of Hierarchical Au Needle Clusters on Highly Active TiO ₂ Thin Film. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800465.	1.9	21
20	Role of UV Plasmonics in the Photocatalytic Performance of TiO ₂ Decorated with Aluminum Nanoparticles. <i>ACS Applied Nano Materials</i> , 2018, 1, 3760-3764.	2.4	35
21	Modeling Multijunction Solar Cells by Nonlocal Tunneling and Subcell Analysis. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 1363-1369.	1.5	23
22	Hierarchical Structures: Photocatalytic Growth of Hierarchical Au Needle Clusters on Highly Active TiO ₂ Thin Film (Adv. Mater. Interfaces 15/2018). <i>Advanced Materials Interfaces</i> , 2018, 5, 1870074.	1.9	1
23	Progress in electronics and photonics with nanomaterials. <i>Vacuum</i> , 2017, 146, 304-307.	1.6	27
24	Plasmon-organic fiber interactions in diamond-like carbon coated nanostructured gold films. <i>Optics Communications</i> , 2017, 402, 635-640.	1.0	3
25	Excitation of surface plasmon polaritons by fluorescent light from organic nanofibers. <i>Optics Communications</i> , 2017, 402, 630-634.	1.0	5
26	The influence of electrical effects on device performance of organic solar cells with nano-structured electrodes. <i>Scientific Reports</i> , 2017, 7, 5300.	1.6	26
27	Simulation methods for multiperiodic and aperiodic nanostructured dielectric waveguides. <i>Optical and Quantum Electronics</i> , 2017, 49, 107.	1.5	14
28	Piezoresistive Response of Quasi-One-Dimensional ZnO Nanowires Using an in Situ Electromechanical Device. <i>ACS Omega</i> , 2017, 2, 2985-2993.	1.6	72
29	SiCloud: an online education tool for silicon photonics. , 2017, , .		0
30	Optical Waveguides with Compound Multiperiodic Grating Nanostructures for Refractive Index Sensing. <i>Journal of Sensors</i> , 2016, 2016, 1-11.	0.6	6
31	Simulation of photonic waveguides with deterministic aperiodic nanostructures for biosensing. , 2016, , .		1
32	Periodically arranged colloidal gold nanoparticles for enhanced light harvesting in organic solar cells. , 2016, , .		3
33	Surface plasmons excited by the photoluminescence of organic nanofibers in hybrid plasmonic systems. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
34	Propagation properties of silver nanowires embedded in a substrate with gain. , 2016, , .		0
35	Optical properties of nanowire metamaterials with gain. <i>Optics Communications</i> , 2016, 379, 25-31.	1.0	3
36	Nanoscale aluminum concaves for light-trapping in organic thin-films. <i>Optics Communications</i> , 2016, 370, 135-139.	1.0	4

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37	Online optimization of different objectives in robotic sailing: Simulations and experiments. , 2015, , .		3
38	Silicon photonics cloud (SiCloud). , 2015, , .		1
39	Radiofrequency encoded angular-resolved light scattering. Applied Physics Letters, 2015, 106, 123701.	1.5	3
40	Nanoscale concave structures for field enhancement in organic thin films. , 2015, , .		0
41	Compact, transmissive two-dimensional spatial disperser design with application in simultaneous endoscopic imaging and laser microsurgery. Applied Optics, 2014, 53, 376.	0.9	21
42	Time-stretch accelerated processor for real-time, in-service, signal analysis. , 2014, , .		2
43	Thermally tunable optical aperture based on a segmented thin-film resonator. , 2014, , .		0
44	Multi-Periodic Photonic Crystal Out-Coupling Layers for Flexible OLEDs. , 2014, , .		0
45	On the effect of broadband, multi-angular excitation and detection in guided-mode resonance biosensors. Proceedings of SPIE, 2014, , .	0.8	1
46	Multi-periodic nanostructures for photon control. Optics Express, 2014, 22, A1363.	1.7	13
47	Time-stretched spectrally encoded angular light scattering for high-throughput real-time diagnostics. Proceedings of SPIE, 2014, , .	0.8	0
48	Wavelength dependency of outcoupling peak intensities for emission layers with multi-periodic photonic crystals. , 2014, , .		0
49	Real-time image processor for detection of rare cells and particles in flow at 37 MHz line scans per second. , 2013, , .		3
50	Tunable elastomer-based virtually imaged phased array. Optics Express, 2013, 21, 3324.	1.7	15
51	Spectrally encoded angular light scattering. Optics Express, 2013, 21, 28960.	1.7	11
52	3D ultrafast laser scanner. Proceedings of SPIE, 2013, , .	0.8	10
53	Miniaturized optical fiber endoscope without inertial scan for simultaneous imaging and laser microsurgery. , 2013, , .		0
54	Elastomer-based tunable virtually imaged phased array for reconfigurable optical interconnects. , 2013, , .		1

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55	Hybrid Dispersion Laser Scanner. Scientific Reports, 2012, 2, 445.	1.6	82
56	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
57	Numerical Multipole Analysis of Ultrawideband Antennas. IEEE Transactions on Antennas and Propagation, 2010, 58, 3847-3855.	3.1	8
58	Far field calculations and experimental characterization of nanostructured OLEDs. , 2009, , .		0
59	Argument-recursive computation of Legendre polynomials and its application to the time domain near-to-far field spherical multipole analysis. Radio Science, 2009, 44, .	0.8	5
60	Numerical analysis of antenna fields using multipole expansions. , 2006, , .		0
61	Argument-Recursive Computation of Legendre Polynomials with Applications in Computational Electromagnetics. , 2006, , .		2
62	Efficient evaluation of antenna fields by a time-domain multipole analysis. Advances in Radio Science, 0, 7, 43-48.	0.7	6