Vlad Shalaev

List of Publications by Year
in descending order

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535 papers	46,612 citations	1883 102 h-index	1974 206 g-index
550 all docs	550 docs citations	550 times ranked	24986 citing authors

#	Article	IF	Citations
1	Understanding all-optical switching at the epsilon-near-zero point: a tutorial review. Applied Physics B: Lasers and Optics, 2022, 128, 1.	1.1	7
2	Electric field control of interaction between magnons and quantum spin defects. Physical Review Research, 2022, 4, .	1.3	8
3	Transparent conducting oxides: from all-dielectric plasmonics to a new paradigm in integrated photonics. Advances in Optics and Photonics, 2022, 14, 148.	12.1	34
4	Optimizing Startshot Lightsail Design: A Generative Network-Based Approach. ACS Photonics, 2022, 9, 190-196.	3.2	8
5	Thickness-Dependent Drude Plasma Frequency in Transdimensional Plasmonic TiN. Nano Letters, 2022, 22, 4622-4629.	4.5	17
6	Challenges and prospects of plasmonic metasurfaces for photothermal catalysis. Nanophotonics, 2022, 11, 3035-3056.	2.9	22
7	Near-zero-index ultra-fast pulse characterization. Nature Communications, 2022, 13, .	5.8	6
8	Extraordinarily large permittivity modulation in zinc oxide for dynamic nanophotonics. Materials Today, 2021, 43, 27-36.	8.3	20
9	Lithography-Free Plasmonic Color Printing with Femtosecond Laser on Semicontinuous Silver Films. ACS Photonics, 2021, 8, 521-530.	3.2	21
10	Machine Learning for Integrated Quantum Photonics. ACS Photonics, 2021, 8, 34-46.	3.2	30
11	Machine learning assisted quantum super-resolution microscopy. , 2021, , .		1
12	Single and Multiâ€Mode Directional Lasing from Arrays of Dielectric Nanoresonators. Laser and Photonics Reviews, 2021, 15, 2000411.	4.4	51
13	High-harmonic Generation in Metallic Titanium Nitride. , 2021, , .		0
14	Controlling All-optical Switching Speeds in an Epsilon-Near-Zero Enhanced Metasurface. , 2021, , .		0
15	Mark Stockman: Evangelist for Plasmonics. ACS Photonics, 2021, 8, 683-698.	3.2	2
16	High-harmonic generation in metallic titanium nitride. Nature Communications, 2021, 12, 4981.	5.8	22
17	Visible photon generation via four-wave mixing in near-infrared near-zero-index thin films. Optics Letters, 2021, 46, 5433.	1.7	4
18	High-efficiency broadband achromatic metalens for near-IR biological imaging window. Nature Communications, 2021, 12, 5560.	5.8	130

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19	Efficient Topology-Optimized Couplers for On-Chip Single-Photon Sources. ACS Photonics, 2021, 8, 3061-3068.	3.2	13
20	Metasurface design optimization via D-Wave based sampling. , 2021, , .		1
21	Towards photonic time-crystals: observation of a femtosecond time-boundary in the refractive index. , 2021, , .		7
22	Enabling Optical Steganography, Data Storage, and Encryption with Plasmonic Colors. Laser and Photonics Reviews, 2021, 15, 2000343.	4.4	56
23	A tribute to Mark Stockman. Nanophotonics, 2021, 10, 3569-3585.	2.9	0
24	Enhancing Photoelectrochemical Energy Storage by Large-Area CdS-Coated Nickel Nanoantenna Arrays. ACS Applied Energy Materials, 2021, 4, 11367-11376.	2.5	10
25	Plasmonic hot-carriers and their applications: opinion. Optical Materials Express, 2021, 11, 3827.	1.6	5
26	Creating Quantum Emitters in Hexagonal Boron Nitride Deterministically on Chip-Compatible Substrates. Nano Letters, 2021, 21, 8182-8189.	4.5	45
27	Deterministic Creation of Quantum Emitters in Hexagonal Boron Nitride on Non-patterned Substrates. , 2021, , .		0
28	Room-temperature single-photon emitters in silicon nitride. Science Advances, 2021, 7, eabj0627.	4.7	30
29	Machine learning framework for quantum sampling of highly constrained, continuous optimization problems. Applied Physics Reviews, 2021, 8, .	5.5	14
30	Broadband, Highâ€Speed, and Largeâ€Amplitude Dynamic Optical Switching with Yttriumâ€Doped Cadmium Oxide. Advanced Functional Materials, 2020, 30, 1908377.	7.8	38
31	Adversarial Autoencoders for Metasurface Design Optimization (invited). , 2020, , .		0
32	On-Chip Single-Layer Integration of Diamond Spins with Microwave and Plasmonic Channels. ACS Photonics, 2020, 7, 2018-2026.	3.2	9
33	Enhancing the graphene photocurrent using surface plasmons and a p-n junction. Light: Science and Applications, 2020, 9, 126.	7.7	56
34	Broadband Ultrafast Dynamics of Refractory Metals: TiN and ZrN. Advanced Optical Materials, 2020, 8, 2000652.	3.6	45
35	Chipâ€Compatible Quantum Plasmonic Launcher. Advanced Optical Materials, 2020, 8, 2000889.	3.6	8
36	Rapid Classification of Quantum Sources Enabled by Machine Learning. Advanced Quantum Technologies, 2020, 3, 2000067.	1.8	27

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37	Machine-learning-assisted metasurface design for high-efficiency thermal emitter optimization. Applied Physics Reviews, 2020, 7, .	5.5	147
38	Plasmonic and phononic properties of epitaxial conductive transition metal nitrides. Journal of Optics (United Kingdom), 2020, 22, 084001.	1.0	20
39	Determining plasmonic hot-carrier energy distributions via single-molecule transport measurements. Science, 2020, 369, 423-426.	6.0	100
40	Transdimensional material platforms for tunable metasurface design. MRS Bulletin, 2020, 45, 188-195.	1.7	11
41	Broad Frequency Shift of Parametric Processes in Epsilon-Near-Zero Time-Varying Media. Applied Sciences (Switzerland), 2020, 10, 1318.	1.3	35
42	Remote Sensing of High Temperatures with Refractory, Direct-Contact Optical Metacavity. ACS Photonics, 2020, 7, 472-479.	3.2	11
43	Negative Refraction in Time-Varying Strongly Coupled Plasmonic-Antennaâ€“Epsilon-Near-Zero Systems. Physical Review Letters, 2020, 124, 043902.	2.9	69
44	Dynamical Control of Broadband Coherent Absorption in ENZ Films. Micromachines, 2020, 11, 110.	1.4	9
45	TiN@TiO₂Coreâ€“Shell Nanoparticles as Plasmonâ€Enhanced Photosensitizers: The Role of Hot Electron Injection. Laser and Photonics Reviews, 2020, 14, 1900376.	4.4	39
46	Solar Thermoplasmonic Nanofurnace for High-Temperature Heterogeneous Catalysis. Nano Letters, 2020, 20, 3663-3672.	4.5	49
47	Ten years of spasers and plasmonic nanolasers. Light: Science and Applications, 2020, 9, 90.	7.7	192
48	Transdimensional epsilon-near-zero modes in planar plasmonic nanostructures. Physical Review Research, 2020, 2, .	1.3	17
49	High-temperature, spectrally-selective, scalable, and flexible thin-film Si absorber and emitter. Optical Materials Express, 2020, 10, 208.	1.6	7
50	Hybrid magneto photonic material structure for plasmon assisted magnetic switching. Optical Materials Express, 2020, 10, 3107.	1.6	3
51	Reduced optical losses in refractory plasmonic titanium nitride thin films deposited with molecular beam epitaxy. Optical Materials Express, 2020, 10, 2679.	1.6	39
52	Adiabatic frequency shifting in epsilon-near-zero materials: the role of group velocity. Optica, 2020, 7, 226.	4.8	76
53	Ultrafast quantum photonics enabled by coupling plasmonic nanocavities to strongly radiative antennas. Optica, 2020, 7, 463.	4.8	58
54	Machine learningâ€“assisted global optimization of photonic devices. Nanophotonics, 2020, 10, 371-383.	2.9	74

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55	Dynamically controlled random lasing with colloidal titanium carbide MXene. Optical Materials Express, 2020, 10, 2304.	1.6	1
56	Extraordinary Permittivity Modulation in Zinc Oxide for Ultrafast Dynamic Nanophotonics. , 2020, , .		0
57	Broadband, High-Speed, and Extraordinarily Large All-Optical Switching with Yttrium-doped Cadmium Oxide. , 2020, , .		0
58	Plasmon-enhanced graphene photothermoelectric detector. , 2020, , .		0
59	Metal-dielectric resonators for multimode, ultrafast all-optical switching in the NIR. , 2020, , .		0
60	Room-Temperature Lasing Action from All-dielectric Metasurfaces Near Bound States in the Continuum. , 2020, , .		2
61	Tuning Topology of Photonic Systems with Transparent Conducting Oxides. ACS Photonics, 2019, 6, 1922-1930.	3.2	13
62	Spatiotemporal light control with frequency-gradient metasurfaces. Science, 2019, 365, 374-377.	6.0	117
63	Roadmap on metasurfaces. Journal of Optics (United Kingdom), 2019, 21, 073002.	1.0	146
64	Strontium Niobate for Nearâ€Infrared Plasmonics. Advanced Optical Materials, 2019, 7, 1900401.	3.6	0
65	Colors with plasmonic nanostructures: A full-spectrum review. Applied Physics Reviews, 2019, 6, .	5.5	136
66	Optical Properties of MXenes. , 2019, , 327-346.		12
67	Highly Efficient Frequency Shifting from Temporally Modulated Epsilon-Near-Zero Surfaces. , 2019, , .		0
68	Transdimensional Photonics. ACS Photonics, 2019, 6, 1-3.	3.2	36
69	Gap-plasmon enhanced water splitting with ultrathin hematite films: the role of plasmonic-based light trapping and hot electrons. Faraday Discussions, 2019, 214, 283-295.	1.6	20
70	Feature issue introduction: Beyond Thin Films: Photonics with Ultrathin and Atomically Thin Materials. Optical Materials Express, 2019, 9, 2427.	1.6	2
71	Spatial and Temporal Nanoscale Plasmonic Heating Quantified by Thermoreflectance. Nano Letters, 2019, 19, 3796-3803.	4.5	28
72	Overcoming quantum decoherence with plasmonics. Science, 2019, 364, 532-533.	6.0	84

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73	Spatiotemporal light control with active metasurfaces. Science, 2019, 364, .	6.0	581
74	Photonic topological phase transition on demand. Nanophotonics, 2019, 8, 1349-1356.	2.9	17
75	Plasmonâ€Enhanced Photoelectrochemical Water Splitting for Efficient Renewable Energy Storage. Advanced Materials, 2019, 31, e1805513.	11.1	159
76	Near-zero-index materials for photonics. Nature Reviews Materials, 2019, 4, 742-760.	23.3	234
77	Photonic Spin Hall Effect in Robust Phase Gradient Metasurfaces Utilizing Transition Metal Nitrides. ACS Photonics, 2019, 6, 99-106.	3.2	35
78	Exploring Timeâ€Resolved Multiphysics of Active Plasmonic Systems with Experimentâ€Based Gain Models. Laser and Photonics Reviews, 2019, 13, 1800071.	4.4	9
79	Achieving full-color generation with polarization-tunable perfect light absorption. Optical Materials Express, 2019, 9, 779.	1.6	35
80	Nonlinearities and carrier dynamics in refractory plasmonic TiN thin films. Optical Materials Express, 2019, 9, 3911.	1.6	12
81	Hybrid Photonic-Plasmonic Waveguides with Ultrathin TiN. , 2019, , .		1
82	Strontium Niobate for Near Infrared Plasmonics. , 2019, , .		0
83	Artificial-intelligence-assisted photonics (Conference Presentation). , 2019, , .		2
84	Roadmap on plasmonics. Journal of Optics (United Kingdom), 2018, 20, 043001.	1.0	240
85	Low-loss plasmon-assisted electro-optic modulator. Nature, 2018, 556, 483-486.	13.7	312
86	Optical Time Reversal from Time-Dependent Epsilon-Near-Zero Media. Physical Review Letters, 2018, 120, 043902.	2.9	98
87	Engineered nonlinear materials using gold nanoantenna array. Scientific Reports, 2018, 8, 780.	1.6	11
88	Dynamic Control of Nanocavities with Tunable Metal Oxides. Nano Letters, 2018, 18, 740-746.	4.5	48
89	Highly Broadband Absorber Using Plasmonic Titanium Carbide (MXene). ACS Photonics, 2018, 5, 1115-1122.	3.2	252
90	Hybrid Plasmonic Bullseye Antennas for Efficient Photon Collection. ACS Photonics, 2018, 5, 692-698.	3.2	59

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91	Emerging materials for tailorable nanophotonic devices. , 2018, , .		1
92	Formation of Bound States in the Continuum in Hybrid Plasmonic-Photonic Systems. Physical Review Letters, 2018, 121, 253901.	2.9	252
93	Synchrotron radiation from an accelerating light pulse. Science, 2018, 362, 439-442.	6.0	29
94	On-Chip Hybrid Photonic-Plasmonic Waveguides with Ultrathin Titanium Nitride Films. ACS Photonics, 2018, 5, 4423-4431.	3.2	36
95	Material platforms for optical metasurfaces. Nanophotonics, 2018, 7, 959-987.	2.9	122
96	High-Resolution Large-Ensemble Nanoparticle Trapping with Multifunctional Thermoplasmonic Nanohole Metasurface. ACS Nano, 2018, 12, 5376-5384.	7.3	47
97	Plasmonic Biomimetic Nanocomposite with Spontaneous Subwavelength Structuring as Broadband Absorbers. ACS Energy Letters, 2018, 3, 1578-1583.	8.8	29
98	Controlling the Plasmonic Properties of Ultrathin TiN Films at the Atomic Level. ACS Photonics, 2018, 5, 2816-2824.	3.2	74
99	Ultrabright Room-Temperature Sub-Nanosecond Emission from Single Nitrogen-Vacancy Centers Coupled to Nanopatch Antennas. Nano Letters, 2018, 18, 4837-4844.	4.5	121
100	Accelerating light with metasurfaces. Optica, 2018, 5, 678.	4.8	30
101	Laser-Induced CO₂ Generation from Gold Nanorod-Containing Poly(propylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T f 5 Materials & Interfaces, 2018, 10, 26084-26098.	4.0	8
102	Ultrathin and multicolour optical cavities with embedded metasurfaces. Nature Communications, 2018, 9, 2673.	5.8	97
103	Optical response of finite-thickness ultrathin plasmonic films. MRS Communications, 2018, 8, 1092-1097.	0.8	13
104	Quantum electrodynamics of optical metasurfaces. , 2018, , .		1
105	Degenerate optical nonlinear enhancement in epsilon-near-zero transparent conducting oxides. Optical Materials Express, 2018, 8, 3392.	1.6	42
106	Suppression of near-field coupling in plasmonic antennas on epsilon-near-zero substrates. Optica, 2018, 5, 1557.	4.8	26
107	Plasmonic Titanium Nitride Nanostructures via Nitridation of Nanopatterned Titanium Dioxide. Advanced Optical Materials, 2017, 5, 1600717.	3.6	42
108	Lasing Action with Gold Nanorod Hyperbolic Metamaterials. ACS Photonics, 2017, 4, 674-680.	3.2	49

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109	Titanium nitride based hybrid plasmonic-photonic waveguides for on-chip plasmonic interconnects. , 2017, , .		1
110	Broadband Hotâ€Electron Collection for Solar Water Splitting with Plasmonic Titanium Nitride. Advanced Optical Materials, 2017, 5, 1601031.	3.6	248
111	Temperature-Dependent Optical Properties of Single Crystalline and Polycrystalline Silver Thin Films. ACS Photonics, 2017, 4, 1083-1091.	3.2	60
112	Plasmonics: Plasmonic Titanium Nitride Nanostructures via Nitridation of Nanopatterned Titanium Dioxide (Advanced Optical Materials 7/2017). Advanced Optical Materials, 2017, 5, .	3.6	0
113	Pancharatnamâ€“Berry Phase Manipulating Metasurface for Visible Color Hologram Based on Low Loss Silver Thin Film. Advanced Optical Materials, 2017, 5, 1700196.	3.6	58
114	Temperature-Dependent Optical Properties of Plasmonic Titanium Nitride Thin Films. ACS Photonics, 2017, 4, 1413-1420.	3.2	143
115	Hyperbolic Metamaterials for Single-Photon Sources and Nanolasers. Springer Series in Solid-state Sciences, 2017, , 97-120.	0.3	1
116	Optical Properties of Plasmonic Ultrathin TiN Films. Advanced Optical Materials, 2017, 5, 1700065.	3.6	95
117	Applying plasmonics to a sustainable future. Science, 2017, 356, 908-909.	6.0	85
118	High temperature efficient, stable Si wafer-based selective solar absorbers. Applied Physics Letters, 2017, 110, .	1.5	12
119	Patterning metamaterials for fast and efficient single-photon sources. , 2017, , .		0
120	Evolution of Metallicity in Vanadium Dioxide by Creation of Oxygen Vacancies. Physical Review Applied, 2017, 7, .	1.5	88
121	Highâ€Performance Doped Silver Films: Overcoming Fundamental Material Limits for Nanophotonic Applications. Advanced Materials, 2017, 29, 1605177.	11.1	90
122	Enhanced Graphene Photodetector with Fractal Metasurface. Nano Letters, 2017, 17, 57-62.	4.5	106
123	Electron spin contrast of Purcell-enhanced nitrogen-vacancy ensembles in nanodiamonds. Physical Review B, 2017, 96, .	1.1	20
124	Solarâ€Energy Harvesting: Broadband Hotâ€Electron Collection for Solar Water Splitting with Plasmonic Titanium Nitride (Advanced Optical Materials 15/2017). Advanced Optical Materials, 2017, 5, .	3.6	2
125	Nanolasers Enabled by Metallic Nanoparticles: From Spasers to Random Lasers. Laser and Photonics Reviews, 2017, 11, 1700212.	4.4	63
126	Ultra-thin plasmonic metal nitrides: Tailoring optical properties to photonic applications. , 2017, , .		2

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127	Optical Properties of Ultrathin Plasmonic TiN Films. , 2017, , .		3
128	Hybrid plasmonic waveguides formed by metal coating of dielectric ridges. Optics Express, 2017, 25, 12295.	1.7	25
129	Material platforms for integrated quantum photonics. Optical Materials Express, 2017, 7, 111.	1.6	109
130	Superconducting detector for visible and near-infrared quantum emitters [Invited]. Optical Materials Express, 2017, 7, 513.	1.6	17
131	Universal features of the optical properties of ultrathin plasmonic films. Optical Materials Express, 2017, 7, 3731.	1.6	35
132	Surface-plasmon opto-magnetic field enhancement for all-optical magnetization switching. Optical Materials Express, 2017, 7, 4316.	1.6	35
133	Deeply sub-wavelength coherent absorption in optically thick ENZ films. , 2017, , .		0
134	Patterned multilayer metamaterial for fast and efficient photon collection from dipolar emitters. Optics Letters, 2017, 42, 3968.	1.7	3
135	Active Metamaterials Based on Monolayer Titanium Carbide MXene for Random Lasing. , 2017, , .		4
136	Plasmonic Resonances in Nanostructured MXene: Highly Broadband Absorber. , 2017, , .		2
137	Plasmonic Antenna Resonance Pinning and Suppression of Near-Field Coupling from Epsilon-Near-Zero Substrate. , 2017, , .		2
138	Broadband hot electron generation for solar energy conversion with plasmonic titanium nitride. , 2017, , .		1
139	Dynamic nanophotonics [Invited]. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 95.	0.9	30
140	Spin Contrast of Purcell-Enhanced Nitrogen-Vacancy Centers in Diamond. , 2017, , .		0
141	Massive Parallel Positioning of Nanodiamonds on Nanophotonic Structures. , 2017, , .		0
142	Temperature induced deviations to the optical responses of plasmonic materials. , 2017, , .		0
143	Oxides and nitrides for nanophotonics and energy applications. , 2017, , .		0
144	Novel Hard Mask Fabrication Method for Hybrid Plasmonic Waveguide and Metasurfaces. , 2017, , .		0

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145	Interband Effects on Hot Carrier Relaxation in Titanium Nitride Films. , 2017, , .		0
146	Surface-Plasmon Opto-Magnetic Field Enhancement for Magnetization Reversal of On-Chip Nanomagnets. , 2017, , .		0
147	Hot Electron Relaxation in Thin Titanium Nitride Films. , 2016, , .		4
148	Photonic Time-Crystals and Momentum Band-Gaps. , 2016, , .		6
149	Implementation of Metasurface Based Nano-Cavities. , 2016, , .		1
150	Electron energy loss spectroscopy of plasmon resonances in titanium nitride thin films. Applied Physics Letters, 2016, 108, .	1.5	15
151	Near-infrared plasmonics with transparent conducting oxides (Conference Presentation). , 2016, , .		0
152	Angled physical vapor deposition techniques for non-conformal thin films and three-dimensional structures. MRS Communications, 2016, 6, 17-22.	0.8	12
153	Refractory plasmonics (Conference Presentation). , 2016, , .		0
154	Controlling Random Lasing with Three-Dimensional Plasmonic Nanorod Metamaterials. Nano Letters, 2016, 16, 2471-2477.	4.5	66
155	Solar-Powered Plasmon-Enhanced Heterogeneous Catalysis. Nanophotonics, 2016, 5, 112-133.	2.9	102
156	Controlling the Polarization State of Light with Plasmonic Metal Oxide Metasurface. ACS Nano, 2016, 10, 9326-9333.	7.3	56
157	Development of Optical Metasurfaces: Emerging Concepts and New Materials. Proceedings of the IEEE, 2016, 104, 2270-2287.	16.4	27
158	Roadmap on optical metamaterials. Journal of Optics (United Kingdom), 2016, 18, 093005.	1.0	118
159	Temperature-dependent optical properties of gold thin films. Optical Materials Express, 2016, 6, 2776.	1.6	141
160	Lasing boosted with plasmonic nanostructures. , 2016, , .		0
161	Enhanced Nonlinear Refractive Index in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Îµ</mml:mi></mml:math>-Near-Zero Materials. Physical Review Letters, 2016, 116, 233901.	2.9	348
162	Plasmonicsâ€"turning loss into gain. Science, 2016, 351, 334-335.	6.0	73

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163	Evolution of photonic metasurfaces: from static to dynamic. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 501.	0.9	68
164	Long-range and rapid transport of individual nano-objects by a hybrid electrothermoplasmonic nanotweezer. Nature Nanotechnology, 2016, 11, 53-59.	15.6	231
165	Lasing Action in Gold Nanorod Hyperbolic Metamaterials. , 2016, , .		4
166	Plasmonic Interconnects Using Zirconium Nitride. , 2016, , .		5
167	High efficiency phase gradient metasurface using refractory plasmonic Zirconium Nitride. , 2016, , .		2
168	Effective Third-Order Nonlinearities in Refractory Plasmonic TiN Thin Films. , 2016, , .		1
169	Ultrafast Optical Tuning of Epsilon-Near-Zero Thin Films. , 2016, , .		0
170	Transient Nonlinear Refraction Measurements of Titanium Nitride Thin Films. , 2016, , .		1
171	Optical properties of gold thin films at elevated temperatures. , 2016, , .		0
172	Controlled Rapid Delivery and On-Chip Trapping of Nanoparticles by a Hybrid Electrothermoplasmonic Nanotweezer. , 2016, , .		0
173	On-demand rapid transport and stable trapping of nanoparticles of nanoparticles by a hybrid electrothermoplasmonic nanotweezer (Conference Presentation). , 2016, , .		0
174	Colloidal Plasmonic Titanium Nitride Nanoparticles: Properties and Applications. Nanophotonics, 2015, 4, 269-276.	2.9	100
175	Time-varying metasurfaces and Lorentz non-reciprocity. Optical Materials Express, 2015, 5, 2459.	1.6	258
176	Second harmonic generation with plasmonic metasurfaces: direct comparison of electric and magnetic resonances. Optical Materials Express, 2015, 5, 2682.	1.6	20
177	A practical platform for integrated optics with nitrides and oxides. , 2015, , .		0
178	Plasmon resonance in multilayer graphene nanoribbons. Laser and Photonics Reviews, 2015, 9, 650-655.	4.4	39
179	Plasmon-Assisted Optoelectrofluidics. , 2015, , .		1
180	Effective third-order nonlinearities in metallic refractory titanium nitride thin films: publisherâ€™s note. Optical Materials Express, 2015, 5, 2587.	1.6	2

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181	All that glitters need not be gold. Science, 2015, 347, 1308-1310.	6.0	66
182	Merging metamaterials with quantum photonics. , 2015, , .		1
183	Electrothermoplasmonic flow for plasmon-assisted optical trapping (Presentation Recording). , 2015, , .		0
184	Enhancement of Single-Photon Sources with Metamaterials. , 2015, , 123-148.		2
185	Time-resolved lasing dynamics for plasmonic system with gain (Presentation Recording). , 2015, , .		0
186	Quasi-coherent thermal emitter based on refractory plasmonic materials. Optical Materials Express, 2015, 5, 2721.	1.6	64
187	Enhancement of singleâ€‘photon emission from nitrogenâ€‘vacancy centers with TiN/(Al,Sc)N hyperbolic metamaterial. Laser and Photonics Reviews, 2015, 9, 120-127.	4.4	93
188	Nanoparticle plasmonics: going practical with transition metal nitrides. Materials Today, 2015, 18, 227-237.	8.3	318
189	Dual-Band Metasurface Based Nano-Cavities. , 2015, , .		0
190	Broadband High-Efficiency Half-Wave Plate Using Plasmonic Metasurface. , 2015, , .		0
191	Broadband High-Efficiency Half-Wave Plate: A Supercell-Based Plasmonic Metasurface Approach. ACS Nano, 2015, 9, 4111-4119.	7.3	387
192	Plasmonic and new plasmonic materials: general discussion. Faraday Discussions, 2015, 178, 123-149.	1.6	16
193	Gyroidal titanium nitride as nonmetallic metamaterial. Optical Materials Express, 2015, 5, 1316.	1.6	25
194	Photonic spin Hall effect in gapâ€“plasmon metasurfaces for on-chip chiroptical spectroscopy. Optica, 2015, 2, 860.	4.8	141
195	Plasmonic Random Lasing in Strongly Scattering Regime with Slanted Silver Nanorod Array. , 2015, , .		0
196	Effect of photonic density of states on spin-flip induced fluorescence contrast in diamond nitrogen-vacancy center ensembles (Presentation Recording). Proceedings of SPIE, 2015, , .	0.8	0
197	Transparent conducting oxides as plasmonic component in near infrared (Presentation Recording). , 2015, , .		0
198	Nitrogen-vacancy single-photon emission enhanced with nanophotonic structures (Presentation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6		0

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199	Plasmon Resonance in Single- and Double-layer CVD Graphene Nanoribbons. , 2015, , .		0
200	Graphene: A Dynamic Platform for Electrical Control of Plasmonic Resonance. Nanophotonics, 2015, 4, 214-223.	2.9	67
201	Time-Domain Model of 4-Level Gain System Fitted to Nanohole Array Lasing Experiment. , 2015, , .		0
202	Color Hologram Generation Using a Pancharatnam-Berry Phase Manipulating Metasurface. , 2015, , .		1
203	Ultrafast dynamics of Al-doped zinc oxide under optical excitation (Presentation Recording). , 2015, , .		0
204	Alternative materials lead to practical nanophotonic components (Presentation Recording). Proceedings of SPIE, 2015, , .	0.8	0
205	Effect of a hyperbolic metamaterial on radiation patterns of a single-photon source. , 2015, , .		0
206	Epsilon-near-zero Al-doped ZnO for ultrafast switching at telecom wavelengths. Optica, 2015, 2, 616.	4.8	280
207	Effective third-order nonlinearities in metallic refractory titanium nitride thin films. Optical Materials Express, 2015, 5, 2395.	1.6	50
208	Examining nanophotonics for integrated hybrid systems: a review of plasmonic interconnects and modulators using traditional and alternative materials [Invited]. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 121.	0.9	111
209	Adiabatically Tapered Hyperbolic Metamaterials for Dispersion Control of High-k Waves. Nano Letters, 2015, 15, 498-505.	4.5	26
210	Plasmonics on the slope of enlightenment: the role of transition metal nitrides. Faraday Discussions, 2015, 178, 71-86.	1.6	92
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