

# Vlad Shalaev

## List of Publications by Year in Descending Order

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

407  
papers

36,434  
citations

91  
h-index

184  
g-index

550  
ext. papers

42,317  
ext. citations

7.6  
avg, IF

7.84  
L-index

#	Paper	IF	Citations
407	Understanding all-optical switching at the epsilon-near-zero point: a tutorial review. <i>Applied Physics B: Lasers and Optics</i> , <b>2022</b> , 128, 1	1.9	1
406	Optimizing Startshot Lightsail Design: A Generative Network-Based Approach. <i>ACS Photonics</i> , <b>2022</b> , 9, 190-196	6.3	2
405	A tribute to Mark Stockman. <i>Nanophotonics</i> , <b>2021</b> , 10, 3569-3585	6.3	
404	Enhancing Photoelectrochemical Energy Storage by Large-Area CdS-Coated Nickel Nanoantenna Arrays. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 11367-11376	6.1	2
403	Creating Quantum Emitters in Hexagonal Boron Nitride Deterministically on Chip-Compatible Substrates. <i>Nano Letters</i> , <b>2021</b> , 21, 8182-8189	11.5	6
402	Extraordinarily large permittivity modulation in zinc oxide for dynamic nanophotonics. <i>Materials Today</i> , <b>2021</b> , 43, 27-36	21.8	3
401	Lithography-Free Plasmonic Color Printing with Femtosecond Laser on Semicontinuous Silver Films. <i>ACS Photonics</i> , <b>2021</b> , 8, 521-530	6.3	6
400	Machine Learning for Integrated Quantum Photonics. <i>ACS Photonics</i> , <b>2021</b> , 8, 34-46	6.3	9
399	Single and Multi-Mode Directional Lasing from Arrays of Dielectric Nanoresonators. <i>Laser and Photonics Reviews</i> , <b>2021</b> , 15, 2000411	8.3	17
398	High-harmonic generation in metallic titanium nitride. <i>Nature Communications</i> , <b>2021</b> , 12, 4981	17.4	4
397	Visible photon generation via four-wave mixing in near-infrared near-zero-index thin films. <i>Optics Letters</i> , <b>2021</b> , 46, 5433-5436	3	0
396	High-efficiency broadband achromatic metalens for near-IR biological imaging window. <i>Nature Communications</i> , <b>2021</b> , 12, 5560	17.4	22
395	Enabling Optical Steganography, Data Storage, and Encryption with Plasmonic Colors. <i>Laser and Photonics Reviews</i> , <b>2021</b> , 15, 2000343	8.3	22
394	Room-temperature single-photon emitters in silicon nitride. <i>Science Advances</i> , <b>2021</b> , 7, eabj0627	14.3	2
393	Machine learning framework for quantum sampling of highly constrained, continuous optimization problems. <i>Applied Physics Reviews</i> , <b>2021</b> , 8, 041418	17.3	3
392	Machine-learning-assisted metasurface design for high-efficiency thermal emitter optimization. <i>Applied Physics Reviews</i> , <b>2020</b> , 7, 021407	17.3	67
391	Plasmonic and phononic properties of epitaxial conductive transition metal nitrides. <i>Journal of Optics (United Kingdom)</i> , <b>2020</b> , 22, 084001	1.7	12

390	Determining plasmonic hot-carrier energy distributions via single-molecule transport measurements. <i>Science</i> , <b>2020</b> , 369, 423-426	33.3	46
389	Transdimensional material platforms for tunable metasurface design. <i>MRS Bulletin</i> , <b>2020</b> , 45, 188-195	3.2	6
388	Broad Frequency Shift of Parametric Processes in Epsilon-Near-Zero Time-Varying Media. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 1318	2.6	12
387	Remote Sensing of High Temperatures with Refractory, Direct-Contact Optical Metacavity. <i>ACS Photonics</i> , <b>2020</b> , 7, 472-479	6.3	6
386	Negative Refraction in Time-Varying Strongly Coupled Plasmonic-Antenna-Epsilon-Near-Zero Systems. <i>Physical Review Letters</i> , <b>2020</b> , 124, 043902	7.4	31
385	Dynamical Control of Broadband Coherent Absorption in ENZ Films. <i>Micromachines</i> , <b>2020</b> , 11,	3.3	4
384	TiN@TiO <sub>2</sub> Core-Shell Nanoparticles as Plasmon-Enhanced Photosensitizers: The Role of Hot Electron Injection. <i>Laser and Photonics Reviews</i> , <b>2020</b> , 14, 1900376	8.3	16
383	Transdimensional epsilon-near-zero modes in planar plasmonic nanostructures. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	9
382	High-temperature, spectrally-selective, scalable, and flexible thin-film Si absorber and emitter. <i>Optical Materials Express</i> , <b>2020</b> , 10, 208	2.6	6
381	Hybrid magneto photonic material structure for plasmon assisted magnetic switching. <i>Optical Materials Express</i> , <b>2020</b> , 10, 3107	2.6	1
380	Reduced optical losses in refractory plasmonic titanium nitride thin films deposited with molecular beam epitaxy. <i>Optical Materials Express</i> , <b>2020</b> , 10, 2679	2.6	13
379	Adiabatic frequency shifting in epsilon-near-zero materials: the role of group velocity. <i>Optica</i> , <b>2020</b> , 7, 226	8.6	32
378	Ultrafast quantum photonics enabled by coupling plasmonic nanocavities to strongly radiative antennas. <i>Optica</i> , <b>2020</b> , 7, 463	8.6	31
377	Machine learning-assisted global optimization of photonic devices. <i>Nanophotonics</i> , <b>2020</b> , 10, 371-383	6.3	30
376	Dynamically controlled random lasing with colloidal titanium carbide MXene. <i>Optical Materials Express</i> , <b>2020</b> , 10, 2304	2.6	1
375	Ten years of spasers and plasmonic nanolasers. <i>Light: Science and Applications</i> , <b>2020</b> , 9, 90	16.7	82
374	Broadband, High-Speed, and Large-Amplitude Dynamic Optical Switching with Yttrium-Doped Cadmium Oxide. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908377	15.6	18
373	On-Chip Single-Layer Integration of Diamond Spins with Microwave and Plasmonic Channels. <i>ACS Photonics</i> , <b>2020</b> , 7, 2018-2026	6.3	3

372	Enhancing the graphene photocurrent using surface plasmons and a p-n junction. <i>Light: Science and Applications</i> , <b>2020</b> , 9, 126	16.7	24
371	Broadband Ultrafast Dynamics of Refractory Metals: TiN and ZrN. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000652	8.1	18
370	Chip-Compatible Quantum Plasmonic Launcher. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000889	8.1	6
369	Rapid Classification of Quantum Sources Enabled by Machine Learning. <i>Advanced Quantum Technologies</i> , <b>2020</b> , 3, 2000067	4.3	10
368	Solar Thermoplasmonic Nanofurnace for High-Temperature Heterogeneous Catalysis. <i>Nano Letters</i> , <b>2020</b> , 20, 3663-3672	11.5	20
367	Gap-plasmon enhanced water splitting with ultrathin hematite films: the role of plasmonic-based light trapping and hot electrons. <i>Faraday Discussions</i> , <b>2019</b> , 214, 283-295	3.6	14
366	Feature issue introduction: Beyond Thin Films: Photonics with Ultrathin and Atomically Thin Materials. <i>Optical Materials Express</i> , <b>2019</b> , 9, 2427	2.6	2
365	Spatial and Temporal Nanoscale Plasmonic Heating Quantified by Thermoreflectance. <i>Nano Letters</i> , <b>2019</b> , 19, 3796-3803	11.5	16
364	Overcoming quantum decoherence with plasmonics. <i>Science</i> , <b>2019</b> , 364, 532-533	33.3	43
363	Spatiotemporal light control with active metasurfaces. <i>Science</i> , <b>2019</b> , 364,	33.3	327
362	Photonic topological phase transition on demand. <i>Nanophotonics</i> , <b>2019</b> , 8, 1349-1356	6.3	11
361	Plasmon-Enhanced Photoelectrochemical Water Splitting for Efficient Renewable Energy Storage. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805513	24	111
360	Tuning Topology of Photonic Systems with Transparent Conducting Oxides. <i>ACS Photonics</i> , <b>2019</b> , 6, 1922-1930	6.3	6
359	Spatiotemporal light control with frequency-gradient metasurfaces. <i>Science</i> , <b>2019</b> , 365, 374-377	33.3	65
358	Roadmap on metasurfaces. <i>Journal of Optics (United Kingdom)</i> , <b>2019</b> , 21, 073002	1.7	69
357	Strontium Niobate for Near-Infrared Plasmonics. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900401	8.1	
356	Colors with plasmonic nanostructures: A full-spectrum review. <i>Applied Physics Reviews</i> , <b>2019</b> , 6, 041308	17.3	69
355	Optical Properties of MXenes <b>2019</b> , 327-346		7

354	Achieving full-color generation with polarization-tunable perfect light absorption. <i>Optical Materials Express</i> , <b>2019</b> , 9, 779	2.6	28
353	Nonlinearities and carrier dynamics in refractory plasmonic TiN thin films. <i>Optical Materials Express</i> , <b>2019</b> , 9, 3911	2.6	7
352	Hybrid Photonic-Plasmonic Waveguides with Ultrathin TiN <b>2019</b> ,		1
351	Artificial-intelligence-assisted photonics (Conference Presentation) <b>2019</b> ,		2
350	Near-zero-index materials for photonics. <i>Nature Reviews Materials</i> , <b>2019</b> , 4, 742-760	73.3	102
349	Photonic Spin Hall Effect in Robust Phase Gradient Metasurfaces Utilizing Transition Metal Nitrides. <i>ACS Photonics</i> , <b>2019</b> , 6, 99-106	6.3	25
348	Exploring Time-Resolved Multiphysics of Active Plasmonic Systems with Experiment-Based Gain Models. <i>Laser and Photonics Reviews</i> , <b>2019</b> , 13, 1800071	8.3	7
347	Roadmap on plasmonics. <i>Journal of Optics (United Kingdom)</i> , <b>2018</b> , 20, 043001	1.7	174
346	Low-loss plasmon-assisted electro-optic modulator. <i>Nature</i> , <b>2018</b> , 556, 483-486	50.4	186
345	Optical Time Reversal from Time-Dependent Epsilon-Near-Zero Media. <i>Physical Review Letters</i> , <b>2018</b> , 120, 043902	7.4	50
344	Engineered nonlinear materials using gold nanoantenna array. <i>Scientific Reports</i> , <b>2018</b> , 8, 780	4.9	7
343	Dynamic Control of Nanocavities with Tunable Metal Oxides. <i>Nano Letters</i> , <b>2018</b> , 18, 740-746	11.5	31
342	Highly Broadband Absorber Using Plasmonic Titanium Carbide (MXene). <i>ACS Photonics</i> , <b>2018</b> , 5, 1115-1123	10.2	162
341	Hybrid Plasmonic Bullseye Antennas for Efficient Photon Collection. <i>ACS Photonics</i> , <b>2018</b> , 5, 692-698	6.3	39
340	Accelerating light with metasurfaces. <i>Optica</i> , <b>2018</b> , 5, 678	8.6	21
339	Laser-Induced CO Generation from Gold Nanorod-Containing Poly(propylene carbonate)-Based Block Polymer Micelles for Ultrasound Contrast Enhancement. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 26084-26098	9.5	7
338	Ultrathin and multicolour optical cavities with embedded metasurfaces. <i>Nature Communications</i> , <b>2018</b> , 9, 2673	17.4	66
337	Optical response of finite-thickness ultrathin plasmonic films. <i>MRS Communications</i> , <b>2018</b> , 8, 1092-1097	2.7	11

336	Quantum electrodynamics of optical metasurfaces <b>2018</b> ,		1
335	Degenerate optical nonlinear enhancement in epsilon-near-zero transparent conducting oxides. <i>Optical Materials Express</i> , <b>2018</b> , 8, 3392	2.6	25
334	Suppression of near-field coupling in plasmonic antennas on epsilon-near-zero substrates. <i>Optica</i> , <b>2018</b> , 5, 1557	8.6	18
333	Emerging materials for tailorable nanophotonic devices <b>2018</b> ,		1
332	Formation of Bound States in the Continuum in Hybrid Plasmonic-Photonic Systems. <i>Physical Review Letters</i> , <b>2018</b> , 121, 253901	7.4	136
331	Synchrotron radiation from an accelerating light pulse. <i>Science</i> , <b>2018</b> , 362, 439-442	33.3	20
330	On-Chip Hybrid Photonic-Plasmonic Waveguides with Ultrathin Titanium Nitride Films. <i>ACS Photonics</i> , <b>2018</b> , 5, 4423-4431	6.3	22
329	Material platforms for optical metasurfaces. <i>Nanophotonics</i> , <b>2018</b> , 7, 959-987	6.3	90
328	High-Resolution Large-Ensemble Nanoparticle Trapping with Multifunctional Thermoplasmonic Nanohole Metasurface. <i>ACS Nano</i> , <b>2018</b> , 12, 5376-5384	16.7	36
327	Plasmonic Biomimetic Nanocomposite with Spontaneous Subwavelength Structuring as Broadband Absorbers. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1578-1583	20.1	20
326	Controlling the Plasmonic Properties of Ultrathin TiN Films at the Atomic Level. <i>ACS Photonics</i> , <b>2018</b> , 5, 2816-2824	6.3	51
325	Ultrabright Room-Temperature Sub-Nanosecond Emission from Single Nitrogen-Vacancy Centers Coupled to Nanopatch Antennas. <i>Nano Letters</i> , <b>2018</b> , 18, 4837-4844	11.5	78
324	Plasmonic Titanium Nitride Nanostructures via Nitridation of Nanopatterned Titanium Dioxide. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1600717	8.1	30
323	Lasing Action with Gold Nanorod Hyperbolic Metamaterials. <i>ACS Photonics</i> , <b>2017</b> , 4, 674-680	6.3	34
322	Titanium nitride based hybrid plasmonic-photonic waveguides for on-chip plasmonic interconnects <b>2017</b> ,		1
321	Broadband Hot-Electron Collection for Solar Water Splitting with Plasmonic Titanium Nitride. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1601031	8.1	147
320	Temperature-Dependent Optical Properties of Single Crystalline and Polycrystalline Silver Thin Films. <i>ACS Photonics</i> , <b>2017</b> , 4, 1083-1091	6.3	38
319	PancharatnamBerry Phase Manipulating Metasurface for Visible Color Hologram Based on Low Loss Silver Thin Film. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700196	8.1	43

318	Temperature-Dependent Optical Properties of Plasmonic Titanium Nitride Thin Films. <i>ACS Photonics</i> , <b>2017</b> , 4, 1413-1420	6.3	91
317	Hyperbolic Metamaterials for Single-Photon Sources and Nanolasers. <i>Springer Series in Solid-state Sciences</i> , <b>2017</b> , 97-120	0.4	1
316	Optical Properties of Plasmonic Ultrathin TiN Films. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700065	8.1	70
315	Applying plasmonics to a sustainable future. <i>Science</i> , <b>2017</b> , 356, 908-909	33.3	68
314	High temperature efficient, stable Si wafer-based selective solar absorbers. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 141101	3.4	11
313	Evolution of Metallicity in Vanadium Dioxide by Creation of Oxygen Vacancies. <i>Physical Review Applied</i> , <b>2017</b> , 7,	4.3	65
312	High-Performance Doped Silver Films: Overcoming Fundamental Material Limits for Nanophotonic Applications. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605177	24	64
311	Enhanced Graphene Photodetector with Fractal Metasurface. <i>Nano Letters</i> , <b>2017</b> , 17, 57-62	11.5	84
310	Patterned multilayer metamaterial for fast and efficient photon collection from dipolar emitters. <i>Optics Letters</i> , <b>2017</b> , 42, 3968-3971	3	2
309	Electron spin contrast of Purcell-enhanced nitrogen-vacancy ensembles in nanodiamonds. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	16
308	Solar-Energy Harvesting: Broadband Hot-Electron Collection for Solar Water Splitting with Plasmonic Titanium Nitride (Advanced Optical Materials 15/2017). <i>Advanced Optical Materials</i> , <b>2017</b> , 5,	8.1	2
307	Nanolasers Enabled by Metallic Nanoparticles: From Spasers to Random Lasers. <i>Laser and Photonics Reviews</i> , <b>2017</b> , 11, 1700212	8.3	50
306	Ultra-thin plasmonic metal nitrides: Tailoring optical properties to photonic applications <b>2017</b> ,		1
305	Optical Properties of Ultrathin Plasmonic TiN Films <b>2017</b> ,		3
304	Hybrid plasmonic waveguides formed by metal coating of dielectric ridges. <i>Optics Express</i> , <b>2017</b> , 25, 12295-12302	12.5	10
303	Material platforms for integrated quantum photonics. <i>Optical Materials Express</i> , <b>2017</b> , 7, 111	2.6	77
302	Superconducting detector for visible and near-infrared quantum emitters [Invited]. <i>Optical Materials Express</i> , <b>2017</b> , 7, 513	2.6	13
301	Universal features of the optical properties of ultrathin plasmonic films. <i>Optical Materials Express</i> , <b>2017</b> , 7, 3731	2.6	25

300	Surface-plasmon opto-magnetic field enhancement for all-optical magnetization switching. <i>Optical Materials Express</i> , <b>2017</b> , 7, 4316	2.6	25
299	Active Metamaterials Based on Monolayer Titanium Carbide MXene for Random Lasing <b>2017</b> ,		2
298	Plasmonic Resonances in Nanostructured MXene: Highly Broadband Absorber <b>2017</b> ,		2
297	Plasmonic Antenna Resonance Pinning and Suppression of Near-Field Coupling from Epsilon-Near-Zero Substrate <b>2017</b> ,		2
296	Broadband hot electron generation for solar energy conversion with plasmonic titanium nitride <b>2017</b> ,		1
295	Dynamic nanophotonics [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2017</b> , 34, 95	1.7	24
294	Temperature-dependent optical properties of gold thin films. <i>Optical Materials Express</i> , <b>2016</b> , 6, 2776	2.6	105
293	Enhanced Nonlinear Refractive Index in Epsilon-Near-Zero Materials. <i>Physical Review Letters</i> , <b>2016</b> , 116, 233901	7.4	224
292	APPLIED PHYSICS. Plasmonics--turning loss into gain. <i>Science</i> , <b>2016</b> , 351, 334-5	33.3	56
291	Evolution of photonic metasurfaces: from static to dynamic. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2016</b> , 33, 501	1.7	56
290	Long-range and rapid transport of individual nano-objects by a hybrid electrothermoplasmonic nanotweezer. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 53-9	28.7	177
289	Lasing Action in Gold Nanorod Hyperbolic Metamaterials <b>2016</b> ,		4
288	Plasmonic Interconnects Using Zirconium Nitride <b>2016</b> ,		3
287	High efficiency phase gradient metasurface using refractory plasmonic Zirconium Nitride <b>2016</b> ,		2
286	Transient Nonlinear Refraction Measurements of Titanium Nitride Thin Films <b>2016</b> ,		1
285	Hot Electron Relaxation in Thin Titanium Nitride Films <b>2016</b> ,		3
284	Photonic Time-Crystals and Momentum Band-Gaps <b>2016</b> ,		1
283	Implementation of Metasurface Based Nano-Cavities <b>2016</b> ,		1



282	Electron energy loss spectroscopy of plasmon resonances in titanium nitride thin films. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 171107	3.4	14
281	Angled physical vapor deposition techniques for non-conformal thin films and three-dimensional structures. <i>MRS Communications</i> , <b>2016</b> , 6, 17-22	2.7	11
280	Controlling Random Lasing with Three-Dimensional Plasmonic Nanorod Metamaterials. <i>Nano Letters</i> , <b>2016</b> , 16, 2471-7	11.5	50
279	Solar-Powered Plasmon-Enhanced Heterogeneous Catalysis. <i>Nanophotonics</i> , <b>2016</b> , 5, 112-133	6.3	84
278	Controlling the Polarization State of Light with Plasmonic Metal Oxide Metasurface. <i>ACS Nano</i> , <b>2016</b> , 10, 9326-9333	16.7	43
277	. <i>Proceedings of the IEEE</i> , <b>2016</b> , 104, 2270-2287	14.3	19
276	Roadmap on optical metamaterials. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 093005	1.7	89
275	Nanoparticle plasmonics: going practical with transition metal nitrides. <i>Materials Today</i> , <b>2015</b> , 18, 227-237	11.8	243
274	Metamaterials: State-of-the Art and Future Directions <b>2015</b> , 53-84		
273	Broadband high-efficiency half-wave plate: a supercell-based plasmonic metasurface approach. <i>ACS Nano</i> , <b>2015</b> , 9, 4111-9	16.7	311
272	Plasmonic and new plasmonic materials: general discussion. <i>Faraday Discussions</i> , <b>2015</b> , 178, 123-49	3.6	13
271	Gyroidal titanium nitride as nonmetallic metamaterial. <i>Optical Materials Express</i> , <b>2015</b> , 5, 1316	2.6	18
270	Photonic spin Hall effect in gap plasmon metasurfaces for on-chip chiroptical spectroscopy. <i>Optica</i> , <b>2015</b> , 2, 860	8.6	114
269	Graphene: A Dynamic Platform for Electrical Control of Plasmonic Resonance. <i>Nanophotonics</i> , <b>2015</b> , 4, 214-223	6.3	51
268	Color Hologram Generation Using a Pancharatnam-Berry Phase Manipulating Metasurface <b>2015</b> ,		1
267	Epsilon-near-zero Al-doped ZnO for ultrafast switching at telecom wavelengths. <i>Optica</i> , <b>2015</b> , 2, 616	8.6	190
266	Effective third-order nonlinearities in metallic refractory titanium nitride thin films. <i>Optical Materials Express</i> , <b>2015</b> , 5, 2395	2.6	40
265	Examining nanophotonics for integrated hybrid systems: a review of plasmonic interconnects and modulators using traditional and alternative materials [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2015</b> , 32, 121	1.7	92

264	Adiabatically tapered hyperbolic metamaterials for dispersion control of high-k waves. <i>Nano Letters</i> , <b>2015</b> , 15, 498-505	11.5	24
263	Plasmonics on the slope of enlightenment: the role of transition metal nitrides. <i>Faraday Discussions</i> , <b>2015</b> , 178, 71-86	3.6	70
262	Colloidal Plasmonic Titanium Nitride Nanoparticles: Properties and Applications. <i>Nanophotonics</i> , <b>2015</b> , 4, 269-276	6.3	79
261	Time-varying metasurfaces and Lorentz non-reciprocity. <i>Optical Materials Express</i> , <b>2015</b> , 5, 2459	2.6	166
260	Second harmonic generation with plasmonic metasurfaces: direct comparison of electric and magnetic resonances. <i>Optical Materials Express</i> , <b>2015</b> , 5, 2682	2.6	17
259	Plasmon resonance in multilayer graphene nanoribbons. <i>Laser and Photonics Reviews</i> , <b>2015</b> , 9, 650-655	8.3	31
258	Effective third-order nonlinearities in metallic refractory titanium nitride thin films: publisher's note. <i>Optical Materials Express</i> , <b>2015</b> , 5, 2587	2.6	1
257	Materials science. All that glitters need not be gold. <i>Science</i> , <b>2015</b> , 347, 1308-10	33.3	49
256	Enhancement of Single-Photon Sources with Metamaterials <b>2015</b> , 123-148		2
255	Quasi-coherent thermal emitter based on refractory plasmonic materials. <i>Optical Materials Express</i> , <b>2015</b> , 5, 2721	2.6	57
254	Enhancement of single-photon emission from nitrogen-vacancy centers with TiN/(Al,Sc)N hyperbolic metamaterial. <i>Laser and Photonics Reviews</i> , <b>2015</b> , 9, 120-127	8.3	75
253	Applied physics. Refractory plasmonics. <i>Science</i> , <b>2014</b> , 344, 263-4	33.3	263
252	Epitaxial superlattices with titanium nitride as a plasmonic component for optical hyperbolic metamaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 7546-51	11.5	164
251	Electrical modulation of fano resonance in plasmonic nanostructures using graphene. <i>Nano Letters</i> , <b>2014</b> , 14, 78-82	11.5	165
250	TiN/(Al,Sc)N metal/dielectric superlattices and multilayers as hyperbolic metamaterials in the visible spectral range. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	41
249	Optically active metasurface with non-chiral plasmonic nanoantennas. <i>Nano Letters</i> , <b>2014</b> , 14, 4426-31	11.5	90
248	Efficient light bending with isotropic metamaterial Huygens' surfaces. <i>Nano Letters</i> , <b>2014</b> , 14, 2491-7	11.5	257
247	Highly directional spaser array for the red wavelength region. <i>Laser and Photonics Reviews</i> , <b>2014</b> , 8, 896-903		60

246	Quantifying local density of optical states of nanorods by fluorescence lifetime imaging. <i>New Journal of Physics</i> , <b>2014</b> , 16, 063069	2.9	7
245	Titanium Nitride as a Refractory Plasmonic Material for High Temperature Applications <b>2014</b> ,		1
244	CMOS Compatible Ultra-Compact Modulator <b>2014</b> ,		1
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67	Electrodynamics of metal-dielectric composites and electromagnetic crystals. <i>Physical Review B</i> , <b>2000</b> , 62, 8531-8539	3.3	44

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51	Nonlinear optics of random metal-dielectric films. <i>Physical Review B</i> , <b>1998</b> , 57, 13265-13288	3.3	210
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49	Spectral Dependence of Selective Photomodification in Fractal Aggregates of Colloidal Particles. <i>Physical Review Letters</i> , <b>1998</b> , 80, 1102-1105	7.4	97

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46	Numerical studies of second- and fourth-order correlation functions in cluster-cluster aggregates in application to optical scattering. <i>Physical Review E</i> , <b>1997</b> , 55, 7313-7333	2.4	4
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40	Nonlinear optics of fractal nanomaterials: Small-particle composites and self-affine thin films. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1997</b> , 241, 249-258	3.3	7
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37	Optical properties of self-affine thin films. <i>Physical Review B</i> , <b>1996</b> , 54, 8235-8242	3.3	50
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35	Small-particle composites. I. Linear optical properties. <i>Physical Review B</i> , <b>1996</b> , 53, 2425-2436	3.3	185
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23	Optical Properties of Fractal Nanocomposites. <i>Materials Research Society Symposia Proceedings</i> , <b>1994</b> , 367, 417		2
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