

Dmitri K Gramotnev

List of Publications by Year in descending order

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63
papers

5,736
citations

331642

21
h-index

206102

48
g-index

64
all docs

64
docs citations

64
times ranked

5541
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonics beyond the diffraction limit. Nature Photonics, 2010, 4, 83-91.	31.4	3,408
2	Nanofocusing of electromagnetic radiation. Nature Photonics, 2014, 8, 13-22.	31.4	321
3	Channel plasmon-polariton in a triangular groove on a metal surface. Optics Letters, 2004, 29, 1069.	3.3	305
4	Two-dimensionally localized modes of a nanoscale gap plasmon waveguide. Applied Physics Letters, 2005, 87, 261114.	3.3	305
5	Single-mode subwavelength waveguide with channel plasmon-polaritons in triangular grooves on a metal surface. Applied Physics Letters, 2004, 85, 6323-6325.	3.3	184
6	Plasmonic subwavelength waveguides: next to zero losses at sharp bends. Optics Letters, 2005, 30, 1186.	3.3	158
7	Nonlinear Nanofocusing in Tapered Plasmonic Waveguides. Physical Review Letters, 2010, 105, 116804.	7.8	108
8	Continuous layer gap plasmon resonators. Optics Express, 2011, 19, 19310.	3.4	102
9	Optimized nonadiabatic nanofocusing of plasmons by tapered metal rods. Journal of Applied Physics, 2008, 104, .	2.5	101
10	Local electric field enhancement during nanofocusing of plasmons by a tapered gap. Physical Review B, 2007, 75, .	3.2	79
11	Adiabatic nanofocusing of plasmons by a sharp metal wedge on a dielectric substrate. Journal of Applied Physics, 2007, 101, 104312.	2.5	69
12	Boosting Local Field Enhancement by on-Chip Nanofocusing and Impedance-Matched Plasmonic Antennas. Nano Letters, 2015, 15, 8148-8154.	9.1	65
13	Gap-plasmon nanoantennas and bowtie resonators. Physical Review B, 2012, 85, .	3.2	54
14	Directional coupler using gap plasmon waveguides. Applied Physics B: Lasers and Optics, 2008, 93, 99-106.	2.2	48
15	Nanoscale Fabry-Pérot Interferometer using channel plasmon-polaritons in triangular metallic grooves. Applied Physics Letters, 2005, 86, 161101.	3.3	39
16	On long-range plasmonic modes in metallic gaps. Optics Express, 2007, 15, 13669.	3.4	37
17	Channel plasmon-polariton modes in V grooves filled with dielectric. Journal of Applied Physics, 2008, 103, 034304.	2.5	36
18	Adiabatic nano-focusing of plasmons by metallic tapered rods in the presence of dissipation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 363, 507-511.	2.1	30

#	ARTICLE	IF	CITATIONS
19	Gap Surface Plasmon Waveguides with Enhanced Integration and Functionality. Nano Letters, 2012, 12, 359-363.	9.1	30
20	Shape effects in tapered metal rods during adiabatic nanofocusing of plasmons. Journal of Applied Physics, 2010, 107, 044303.	2.5	22
21	Optimal tapers for compensating losses in plasmonic waveguides. Physica Status Solidi - Rapid Research Letters, 2010, 4, 277-279.	2.4	21
22	Ultimate capabilities of sharp metal tips for plasmon nanofocusing, near-field trapping and sensing. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3464-3468.	2.1	21
23	Title is missing!. Optical and Quantum Electronics, 2000, 32, 1097-1124.	3.3	15
24	Heating effects in nanofocusing metal wedges. Journal of Applied Physics, 2011, 110, 034310.	2.5	15
25	Wavelength-dependent transmission through sharp 90° bends in sub-wavelength metallic slot waveguides. Optics Express, 2010, 18, 16139.	3.4	14
26	The multilayered effects of initial teacher education programs on the beginning teacher workforce and workplace: Perceptions of beginning teachers and their school leaders. International Journal of Educational Research, 2020, 99, 101488.	2.2	14
27	Modeling of Aerosol Dispersion from a Busy Road in the Presence of Nanoparticle Fragmentation. Journal of Applied Meteorology and Climatology, 2005, 44, 888-899.	1.7	12
28	Anomalous absorption of bulk shear acoustic waves by an ultra-thin layer of a non-Newtonian fluid. Journal of the Acoustical Society of America, 1999, 106, 2552-2559.	1.1	11
29	Double-resonant extremely asymmetrical scattering of electromagnetic waves in non-uniform periodic arrays. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 253, 309-316.	2.1	11
30	Extremely asymmetrical scattering of optical waves in nonuniform periodic Bragg arrays. Applied Optics, 1999, 38, 2440.	2.1	10
31	Plasmon nanofocusing in a dielectric hemisphere covered in tapered metal film. Optics Express, 2012, 20, 12866.	3.4	10
32	Thermal tweezers for surface manipulation with nanoscale resolution. Applied Physics Letters, 2007, 90, 054108.	3.3	7
33	Thermal tweezers for manipulation of adatoms and nanoparticles on surfaces heated by interfering laser pulses. Journal of Applied Physics, 2008, 104, 064320.	2.5	7
34	Nanofluidic delivery of molecules: integrated plasmonic sensing with nanoholes. Microfluidics and Nanofluidics, 2013, 14, 743-751.	2.2	7
35	Plasmon Nanofocusing with Negative Refraction in a High-Index Dielectric Wedge. Plasmonics, 2014, 9, 175-184.	3.4	7
36	Parkinson's disease prognostic scores for progression of cognitive decline. Scientific Reports, 2019, 9, 17485.	3.3	7

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37	Non-steady-state extremely asymmetrical scattering of waves in periodic gratings. Optics Express, 2002, 10, 268.	3.4	5
38	Second-order grazing-angle scattering in uniform wide holographic gratings. Applied Physics B: Lasers and Optics, 2003, 76, 65-73.	2.2	5
39	Characteristics of plasmonic waveguides and nonlinear metallic particles. , 2006, 6324, 632401.		5
40	Analysis of efficiency and optimization of plasmon energy coupling into nanofocusing metal wedges. Journal of Applied Physics, 2010, 107, 094301.	2.5	5
41	Monitoring and analysis of combustion aerosol emissions from fast moving diesel trains. Science of the Total Environment, 2011, 409, 985-993.	8.0	5
42	New Plasmon Waveguides Composed of Twin Metal Wedges with a Nano Gap. Optical Review, 2006, 13, 228-230.	2.0	4
43	Psychological Stress and Psychosomatic Treatment: Major Impact on Serious Blood Disorders. NeuroImmunoModulation, 2011, 18, 171-183.	1.8	4
44	Higher-order extremely asymmetrical scattering. Optical and Quantum Electronics, 2003, 35, 237-257.	3.3	3
45	Exact solution for stochastic degradation and fragmentation processes in arbitrary chain and ring aggregates with multiple bonds. Physical Review E, 2008, 77, 021105.	2.1	3
46	Experimental observation of anomalous absorption of bulk shear acoustic waves by a thin layer of viscous fluid. Applied Physics Letters, 2000, 76, 2020-2022.	3.3	2
47	Frequency response of second-order extremely asymmetrical scattering in wide uniform holographic gratings. Applied Physics B: Lasers and Optics, 2003, 77, 663-671.	2.2	1
48	The plasmonic Raman sensor using periodic nanofocusing arrays. , 2010, , .		1
49	A method for the analysis of thermal tweezers for manipulation and trapping of nanoparticles and adatoms on crystalline surfaces. Journal of Applied Physics, 2010, 107, 104317.	2.5	1
50	Numerical optimization of periodic hole arrays for plasmonic Raman sensor. Proceedings of SPIE, 2011, , .	0.8	1
51	Extremely asymmetrical scattering in gratings with weak dissipation: some physical analogies. Applied Physics B: Lasers and Optics, 2002, 75, 695-701.	2.2	0
52	Grazing-angle scattering of waves in infinitely wide periodic gratings. Optical and Quantum Electronics, 2003, 35, 845-863.	3.3	0
53	Anomalous absorption of bulk shear sagittal acoustic waves in a layered structure with viscous fluid. Ultrasonics, 2003, 41, 197-205.	3.9	0
54	Non-steady-state double-resonant extremely asymmetrical scattering of waves in periodic gratings. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 310, 214-222.	2.1	0

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55	Grazing angle scattering of electromagnetic waves in gratings with varying mean parameters. Journal of Modern Optics, 2004, 51, 13-29.	1.3	0
56	Characteristics of plasmonic waveguides for coupled wedge plasmons. , 2006, , .		0
57	Numerical optimization for the plasmonic Raman sensor including periodic hole arrays and tapering directions. Proceedings of SPIE, 2011, , .	0.8	0
58	Liposomes. , 2012, , 1218-1223.		0
59	Laser Scanning Confocal Microscopy. , 2012, , 1192-1192.		0
60	Low-Pressure Chemical Vapor Deposition (LPCVD). , 2012, , 1233-1233.		0
61	Design, fabrication and SNOM investigation of plasmonic devices. , 2016, , .		0
62	Light Localization for Nano-optical Devices. , 2016, , 1784-1791.		0
63	Path analysis of biomarkers for cognitive decline in early Parkinson's disease. PLoS ONE, 2022, 17, e0268379.	2.5	0