Dmitri K Gramotnev

List of Publications by Citations

54 papers	4,612 citations	20 h-index	64 g-index
64 ext. papers	5,369 ext. citations	4.3 avg, IF	6.1 L-index

#	Paper	IF	Citations
54	Plasmonics beyond the diffraction limit. *Nature Photonics*, **2010**, 4, 83-91	33.9	2680
53	Channel plasmon-polariton in a triangular groove on a metal surface. *Optics Letters*, **2004**, 29, 1069-71	3	267
52	Nanofocusing of electromagnetic radiation. *Nature Photonics*, **2014**, 8, 13-22	33.9	257
51	Two-dimensionally localized modes of a nanoscale gap plasmon waveguide. *Applied Physics Letters*, **2005**, 87, 261114	3.4	254
50	Single-mode subwavelength waveguide with channel plasmon-polaritons in triangular grooves on a metal surface. *Applied Physics Letters*, **2004**, 85, 6323-6325	3.4	160
49	Plasmonic subwavelength waveguides: next to zero losses at sharp bends. *Optics Letters*, **2005**, 30, 1186-8	3	125
48	Nonlinear nanofocusing in tapered plasmonic waveguides. *Physical Review Letters*, **2010**, 105, 116804	7.4	94
47	Continuous layer gap plasmon resonators. *Optics Express*, **2011**, 19, 19310-22	3.3	90
46	Optimized nonadiabatic nanofocusing of plasmons by tapered metal rods. *Journal of Applied Physics*, **2008**, 104, 034311	2.5	85
45	Local electric field enhancement during nanofocusing of plasmons by a tapered gap. *Physical Review B*, **2007**, 75,	3.3	69
44	Adiabatic nanofocusing of plasmons by a sharp metal wedge on a dielectric substrate. *Journal of Applied Physics*, **2007**, 101, 104312	2.5	62
43	Boosting Local Field Enhancement by on-Chip Nanofocusing and Impedance-Matched Plasmonic Antennas. *Nano Letters*, **2015**, 15, 8148-54	11.5	49
42	Gap-plasmon nanoantennas and bowtie resonators. *Physical Review B*, **2012**, 85,	3.3	47
41	Directional coupler using gap plasmon waveguides. *Applied Physics B: Lasers and Optics*, **2008**, 93, 99-106	1.9	35
40	Nanoscale Fabry-Pérot Interferometer using channel plasmon-polaritons in triangular metallic grooves. *Applied Physics Letters*, **2005**, 86, 161101	3.4	32
39	Channel plasmon-polariton modes in V grooves filled with dielectric. *Journal of Applied Physics*, **2008**, 103, 034304	2.5	30
38	On long-range plasmonic modes in metallic gaps. *Optics Express*, **2007**, 15, 13669-74	3.3	30

37	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	2.3	29
36	Gap surface plasmon waveguides with enhanced integration and functionality. *Nano Letters*, **2012**, 12, 359-63	11.5	25
35	Shape effects in tapered metal rods during adiabatic nanofocusing of plasmons. *Journal of Applied Physics*, **2010**, 107, 044303	2.5	21
34	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	2.3	18
33	Optimal tapers for compensating losses in plasmonic waveguides. *Physica Status Solidi - Rapid Research Letters*, **2010**, 4, 277-279	2.5	14
32	Heating effects in nanofocusing metal wedges. *Journal of Applied Physics*, **2011**, 110, 034310	2.5	13
31	Double-resonant extremely asymmetrical scattering of electromagnetic waves in non-uniform periodic arrays. *Optical and Quantum Electronics*, **2000**, 32, 1097-1124	2.4	10
30	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	2.2	10
29	Plasmon nanofocusing in a dielectric hemisphere covered in tapered metal film. *Optics Express*, **2012**, 20, 12866-76	3.3	9
28	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	2.3	9
27	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	2.1	9
26	Wavelength-dependent transmission through sharp 90 degrees bends in sub-wavelength metallic slot waveguides. *Optics Express*, **2010**, 18, 16139-45	3.3	8
25	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
24	Plasmon Nanofocusing with Negative Refraction in a High-Index Dielectric Wedge. *Plasmonics*, **2014**, 9, 175-184	2.4	6
23	Thermal tweezers for surface manipulation with nanoscale resolution. *Applied Physics Letters*, **2007**, 90, 054108	3.4	6
22	Modeling of Aerosol Dispersion from a Busy Road in the Presence of Nanoparticle Fragmentation. *Journal of Applied Meteorology and Climatology*, **2005**, 44, 888-899		6
21	Monitoring and analysis of combustion aerosol emissions from fast moving diesel trains. *Science of the Total Environment*, **2011**, 409, 985-93	10.2	5
20	Analysis of efficiency and optimization of plasmon energy coupling into nanofocusing metal wedges. *Journal of Applied Physics*, **2010**, 107, 094301	2.5	5

19	Nanofluidic delivery of molecules: integrated plasmonic sensing with nanoholes. *Microfluidics and Nanofluidics*, **2013**, 14, 743-751	2.8	4
18	Psychological stress and psychosomatic treatment: major impact on serious blood disorders?. *NeuroImmunoModulation*, **2011**, 18, 171-83	2.5	4
17	Characteristics of plasmonic waveguides and nonlinear metallic particles **2006**, 6324, 632401		4
16	Non-steady-state extremely asymmetrical scattering of waves in periodic gratings. *Optics Express*, **2002**, 10, 268-73	3.3	4
15	Extremely asymmetrical scattering of optical waves in nonuniform periodic Bragg arrays. *Applied Optics*, **1999**, 38, 2440-50	1.7	4
14	Second-order grazing-angle scattering in uniform wide holographic gratings. *Applied Physics B: Lasers and Optics*, **2003**, 76, 65-73	1.9	3
13	Parkinson's disease prognostic scores for progression of cognitive decline. *Scientific Reports*, **2019**, 9, 17485	4.9	3
12	Exact solution for stochastic degradation and fragmentation processes in arbitrary chain and ring aggregates with multiple bonds. *Physical Review E*, **2008**, 77, 021105	2.4	2
11	New Plasmon Waveguides Composed of Twin Metal Wedges with a Nano Gap. *Optical Review*, **2006** , 13, 228-230	0.9	2
10	Higher-order extremely asymmetrical scattering. *Optical and Quantum Electronics*, **2003**, 35, 237-257	2.4	2
9	Experimental observation of anomalous absorption of bulk shear acoustic waves by a thin layer of viscous fluid. *Applied Physics Letters*, **2000**, 76, 2020-2022	3.4	2
8	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
7	Frequency response of second-order extremely asymmetrical scattering in wide uniform holographic gratings. *Applied Physics B: Lasers and Optics*, **2003**, 77, 663-671	1.9	1
6	Grazing angle scattering of electromagnetic waves in gratings with varying mean parameters. *Journal of Modern Optics*, **2004**, 51, 13-29	1.1	
5	Extremely asymmetrical scattering in gratings with weak dissipation: some physical analogies. *Applied Physics B: Lasers and Optics*, **2002**, 75, 695-701	1.9	
4	Grazing-angle scattering of waves in infinitely wide periodic gratings. *Optical and Quantum Electronics*, **2003**, 35, 845-863	2.4	
3	Anomalous absorption of bulk shear sagittal acoustic waves in a layered structure with viscous fluid. *Ultrasonics*, **2003**, 41, 197-205	3.5	
2	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	2.3	

1 Path analysis of biomarkers for cognitive decline in early Parkinsons disease.. *PLoS ONE*, **2022**, 17, e0268379 5 37