Dmitri K Gramotnev

List of Publications by Year in Descending Order

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	Path analysis of biomarkers for cognitive decline in early Parkinson's disease.. *PLoS ONE*, **2022**, 17, e0268379	3.7	
53	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
52	Parkinson's disease prognostic scores for progression of cognitive decline. *Scientific Reports*, **2019**, 9, 17485	4.9	3
51	Boosting Local Field Enhancement by on-Chip Nanofocusing and Impedance-Matched Plasmonic Antennas. *Nano Letters*, **2015**, 15, 8148-54	11.5	49
50	Plasmon Nanofocusing with Negative Refraction in a High-Index Dielectric Wedge. *Plasmonics*, **2014**, 9, 175-184	2.4	6
49	Nanofocusing of electromagnetic radiation. *Nature Photonics*, **2014**, 8, 13-22	33.9	257
48	Nanofluidic delivery of molecules: integrated plasmonic sensing with nanoholes. *Microfluidics and Nanofluidics*, **2013**, 14, 743-751	2.8	4
47	Gap surface plasmon waveguides with enhanced integration and functionality. *Nano Letters*, **2012**, 12, 359-63	11.5	25
46	Plasmon nanofocusing in a dielectric hemisphere covered in tapered metal film. *Optics Express*, **2012**, 20, 12866-76	3.3	9
45	Gap-plasmon nanoantennas and bowtie resonators. *Physical Review B*, **2012**, 85,	3.3	47
44	Psychological stress and psychosomatic treatment: major impact on serious blood disorders?. *NeuroImmunoModulation*, **2011**, 18, 171-83	2.5	4
43	Continuous layer gap plasmon resonators. *Optics Express*, **2011**, 19, 19310-22	3.3	90
42	Monitoring and analysis of combustion aerosol emissions from fast moving diesel trains. *Science of the Total Environment*, **2011**, 409, 985-93	10.2	5
41	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
40	Heating effects in nanofocusing metal wedges. *Journal of Applied Physics*, **2011**, 110, 034310	2.5	13
39	Plasmonics beyond the diffraction limit. *Nature Photonics*, **2010**, 4, 83-91	33.9	2680
38	Shape effects in tapered metal rods during adiabatic nanofocusing of plasmons. *Journal of Applied Physics*, **2010**, 107, 044303	2.5	21

37	Analysis of efficiency and optimization of plasmon energy coupling into nanofocusing metal wedges. *Journal of Applied Physics*, **2010**, 107, 094301	2.5	5
36	Wavelength-dependent transmission through sharp 90 degrees bends in sub-wavelength metallic slot waveguides. *Optics Express*, **2010**, 18, 16139-45	3.3	8
35	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
34	Optimal tapers for compensating losses in plasmonic waveguides. *Physica Status Solidi - Rapid Research Letters*, **2010**, 4, 277-279	2.5	14
33	Nonlinear nanofocusing in tapered plasmonic waveguides. *Physical Review Letters*, **2010**, 105, 116804	7.4	94
32	Channel plasmon-polariton modes in V grooves filled with dielectric. *Journal of Applied Physics*, **2008**, 103, 034304	2.5	30
31	Optimized nonadiabatic nanofocusing of plasmons by tapered metal rods. *Journal of Applied Physics*, **2008**, 104, 034311	2.5	85
30	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
29	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
28	Directional coupler using gap plasmon waveguides. *Applied Physics B: Lasers and Optics*, **2008**, 93, 99-106	1.9	35
27	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
26	Adiabatic nanofocusing of plasmons by a sharp metal wedge on a dielectric substrate. *Journal of Applied Physics*, **2007**, 101, 104312	2.5	62
25	Thermal tweezers for surface manipulation with nanoscale resolution. *Applied Physics Letters*, **2007**, 90, 054108	3.4	6
24	On long-range plasmonic modes in metallic gaps. *Optics Express*, **2007**, 15, 13669-74	3.3	30
23	Local electric field enhancement during nanofocusing of plasmons by a tapered gap. *Physical Review B*, **2007**, 75,	3.3	69
22	Characteristics of plasmonic waveguides and nonlinear metallic particles **2006**, 6324, 632401		4
21	New Plasmon Waveguides Composed of Twin Metal Wedges with a Nano Gap. *Optical Review*, **2006**, 13, 228-230	0.9	2
20	Plasmonic subwavelength waveguides: next to zero losses at sharp bends. *Optics Letters*, **2005**, 30, 1186-8	3	125

19	Two-dimensionally localized modes of a nanoscale gap plasmon waveguide. *Applied Physics Letters*, **2005**, 87, 261114	3.4	254
18	Nanoscale Fabry-Pérot Interferometer using channel plasmon-polaritons in triangular metallic grooves. *Applied Physics Letters*, **2005**, 86, 161101	3.4	32
17	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
16	Grazing angle scattering of electromagnetic waves in gratings with varying mean parameters. *Journal of Modern Optics*, **2004**, 51, 13-29	1.1	
15	Channel plasmon-polariton in a triangular groove on a metal surface. *Optics Letters*, **2004**, 29, 1069-71	3	267
14	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
13	Grazing-angle scattering of waves in infinitely wide periodic gratings. *Optical and Quantum Electronics*, **2003**, 35, 845-863	2.4	
12	Higher-order extremely asymmetrical scattering. *Optical and Quantum Electronics*, **2003**, 35, 237-257	2.4	2
11	Second-order grazing-angle scattering in uniform wide holographic gratings. *Applied Physics B: Lasers and Optics*, **2003**, 76, 65-73	1.9	3
10	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
9	Anomalous absorption of bulk shear sagittal acoustic waves in a layered structure with viscous fluid. *Ultrasonics*, **2003**, 41, 197-205	3.5	
8	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	
7	Extremely asymmetrical scattering in gratings with weak dissipation: some physical analogies. *Applied Physics B: Lasers and Optics*, **2002**, 75, 695-701	1.9	
6	Non-steady-state extremely asymmetrical scattering of waves in periodic gratings. *Optics Express*, **2002**, 10, 268-73	3.3	4
5	Double-resonant extremely asymmetrical scattering of electromagnetic waves in non-uniform periodic arrays. *Optical and Quantum Electronics*, **2000**, 32, 1097-1124	2.4	10
4	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
3	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
2	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

1	Extremely asymmetrical scattering of optical waves in nonuniform periodic Bragg arrays. *Applied Optics*, **1999**, 38, 2440-50	1.7	4