

Evgeny L Gurevich

List of Publications by Year in descending order

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85
papers

2,447
citations

186265

28
h-index

214800

47
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88
all docs

88
docs citations

88
times ranked

2545
citing authors

#	ARTICLE	IF	CITATIONS
1	Concentric-Ring Patterns in a Dielectric Barrier Discharge System. <i>Physical Review Letters</i> , 2003, 91, 154501.	7.8	140
2	Review on experimental and theoretical investigations of the early stage, femtoseconds to microseconds processes during laser ablation in liquid-phase for the synthesis of colloidal nanoparticles. <i>Plasma Sources Science and Technology</i> , 2019, 28, 103001.	3.1	128
3	Comparison of in Situ and ex Situ Methods for Synthesis of Two-Photon Polymerization Polymer Nanocomposites. <i>Polymers</i> , 2014, 6, 2037-2050.	4.5	126
4	Femtosecond Laser-Induced Breakdown Spectroscopy: Physics, Applications, and Perspectives. <i>Applied Spectroscopy</i> , 2007, 61, 233A-242A.	2.2	113
5	Direct Metal Deposition of Refractory High Entropy Alloy MoNbTaW. <i>Physics Procedia</i> , 2016, 83, 624-633.	1.2	106
6	Dielectric barrier discharges in analytical chemistry. <i>Analyst, The</i> , 2011, 136, 2427.	3.5	101
7	Real-time Detection of Single Immobilized Nanoparticles by Surface Plasmon Resonance Imaging. <i>Plasmonics</i> , 2010, 5, 31-35.	3.4	84
8	Relaxation dynamics of femtosecond-laser-induced temperature modulation on the surfaces of metals and semiconductors. <i>Applied Surface Science</i> , 2016, 374, 157-164.	6.1	72
9	Mechanisms of femtosecond LIPSS formation induced by periodic surface temperature modulation. <i>Applied Surface Science</i> , 2016, 374, 56-60.	6.1	71
10	Laser Induced Periodic Surface Structures induced by surface plasmons coupled via roughness. <i>Applied Surface Science</i> , 2014, 302, 118-123.	6.1	65
11	Rotating hexagonal pattern in a dielectric barrier discharge system. <i>Physical Review E</i> , 2004, 70, 036202.	2.1	64
12	Laser metal deposition of compositionally graded TiZrNbTa refractory high-entropy alloys using elemental powder blends. <i>Additive Manufacturing</i> , 2019, 25, 252-262.	3.0	62
13	Synthesis of Magnetic Nanoparticles by Ultrashort Pulsed Laser Ablation of Iron in Different Liquids. <i>ChemPhysChem</i> , 2017, 18, 1155-1164.	2.1	55
14	On femtosecond laser shock peening of stainless steel AISI 316. <i>Applied Surface Science</i> , 2018, 435, 1120-1124.	6.1	50
15	A simple laser ICP-MS ablation cell with wash-out time less than 100 ms. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 1043.	3.0	49
16	Simultaneous nanopatterning and reduction of graphene oxide by femtosecond laser pulses. <i>Applied Surface Science</i> , 2018, 445, 197-203.	6.1	49
17	Generation of bioinspired structural colors via two-photon polymerization. <i>Scientific Reports</i> , 2017, 7, 17622.	3.3	48
18	Laser metal deposition of a refractory TiZrNbHfTa high-entropy alloy. <i>Additive Manufacturing</i> , 2018, 24, 386-390.	3.0	47

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19	Corrosion behavior of NiTi alloy subjected to femtosecond laser shock peening without protective coating in air environment. <i>Applied Surface Science</i> , 2020, 501, 144338.	6.1	45
20	Atomistic modeling of femtosecond laser-induced melting and atomic mixing in Au film on Cu substrate system. <i>Applied Surface Science</i> , 2009, 255, 9605-9612.	6.1	39
21	Deep Subwavelength Laser-Induced Periodic Surface Structures on Silicon as a Novel Multifunctional Biosensing Platform. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54551-54560.	8.0	39
22	Role of the temperature dynamics in formation of nanopatterns upon single femtosecond laser pulses on gold. <i>Physical Review B</i> , 2017, 95, .	3.2	36
23	Pattern formation in planar dc-driven semiconductor gas discharge devices: two mechanisms. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 468-476.	2.8	34
24	Investigation on femto-second laser irradiation assisted shock peening of medium carbon (0.4% C) steel. <i>Applied Surface Science</i> , 2016, 364, 133-140.	6.1	33
25	Effects of femtosecond laser shock peening in distilled water on the surface characterizations of NiTi shape memory alloy. <i>Applied Surface Science</i> , 2019, 471, 869-877.	6.1	33
26	Surface modification of NiTi alloy by ultrashort pulsed laser shock peening. <i>Surface and Coatings Technology</i> , 2020, 394, 125899.	4.8	31
27	Analytical features of particle counting sensor based on plasmon assisted microscopy of nano objects. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 1210-1215.	7.8	29
28	Incubation effect and its influence on laser patterning of ITO thin film. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 107, 333-338.	2.3	29
29	Wavelength dependence of picosecond laser-induced periodic surface structures on copper. <i>Applied Surface Science</i> , 2017, 417, 88-92.	6.1	29
30	Wetting morphologies and their transitions in grooved substrates. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 184108.	1.8	28
31	On the influence of surface plasmon-polariton waves on pattern formation upon laser ablation. <i>Applied Surface Science</i> , 2013, 278, 52-56.	6.1	28
32	Optimization of femtosecond laser processing in liquids. <i>Applied Surface Science</i> , 2019, 467-468, 255-260.	6.1	28
33	Laser metal deposition of refractory high-entropy alloys for high-throughput synthesis and structure-property characterization. <i>International Journal of Extreme Manufacturing</i> , 2021, 3, 015201.	12.7	27
34	Self-sustained oscillations in a low-current discharge with a semiconductor serving as a cathode and ballast resistor: II. Theory. <i>Technical Physics</i> , 2006, 51, 185-197.	0.7	26
35	Dewetting of Liquid Filaments in Wedge-Shaped Grooves. <i>Langmuir</i> , 2007, 23, 12138-12141.	3.5	26
36	Signal Analysis and Classification for Surface Plasmon Assisted Microscopy of Nanoobjects. <i>Sensors and Actuators B: Chemical</i> , 2010, 151, 281-290.	7.8	26

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37	Rotating waves in a planar dc-driven gas-discharge system with semi-insulating GaAs cathode. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 307, 299-303.	2.1	24
38	Three-Step Description of Single-Pulse Formation of Laser-Induced Periodic Surface Structures on Metals. <i>Nanomaterials</i> , 2020, 10, 1836.	4.1	24
39	Influence of defects on structural colours generated by laser-induced ripples. <i>Scientific Reports</i> , 2020, 10, 53.	3.3	24
40	Development of a novel dielectric barrier microhollow cathode discharge for gaseous atomic emission spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 677.	3.0	23
41	Studies on ultra-short pulsed laser shock peening of stainless-steel in different confinement media. <i>Surface and Coatings Technology</i> , 2020, 397, 125988.	4.8	20
42	Biomimetic structural coloration with tunable degree of angle-independence generated by two-photon polymerization. <i>Optical Materials Express</i> , 2019, 9, 2630.	3.0	20
43	Radiofrequency driven and low cost fabricated microhollow cathode discharge for gaseous atomic emission spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 505-510.	3.0	19
44	Effect of laser shock peening without protective coating on the surface mechanical properties of NiTi alloy. <i>Journal of Alloys and Compounds</i> , 2022, 896, 163011.	5.5	19
45	Pump-probe microscopy of femtosecond laser ablation in air and liquids. <i>Applied Surface Science</i> , 2019, 475, 204-210.	6.1	16
46	Femtosecond laser crystallization of amorphous titanium oxide thin films. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	15
47	Laser-induced surface relief nanocrowns as a manifestation of nanoscale Rayleigh-Plateau hydrodynamic instability. <i>Applied Surface Science</i> , 2020, 511, 145463.	6.1	15
48	Design and performances of a cyclonic flux cell for laser ablation. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 328.	3.0	14
49	Generation of microfluidic flow using an optically assembled and magnetically driven microrotor. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 505501.	2.8	14
50	Laser-Textured Metal Substrates as Photoanodes for Enhanced PEC Water Splitting Reactions. <i>Advanced Engineering Materials</i> , 2018, 20, 1800167.	3.5	14
51	Femtosecond laser patterning of graphene electrodes for thin-film transistors. <i>Applied Surface Science</i> , 2019, 478, 299-303.	6.1	14
52	Self-sustained oscillations in a low-current discharge with a semiconductor serving as a cathode and ballast resistor: I. Experiment. <i>Technical Physics</i> , 2006, 51, 180-184.	0.7	13
53	Generation of NiTi Nanoparticles by Femtosecond Laser Ablation in Liquid. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 2482-2486.	2.5	12
54	Silicon microprotrusions with tailored chirality enabled by direct femtosecond laser ablation. <i>Optics Letters</i> , 2020, 45, 3050.	3.3	12

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55	Uniform subwavelength high-aspect ratio nanogratings on metal-protected bulk silicon produced by laser-induced periodic surface structuring. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	12
56	Orientation of ripples induced by ultrafast laser pulses on copper in different liquids. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	11
57	Structural colors with angle-insensitive optical properties generated by Morpho-inspired 2PP structures. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	11
58	Current spots in an obstructed planar glow discharge. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 1029-1033.	2.8	9
59	Modification of GaAs surface by low-current Townsend discharge. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 275302.	2.8	9
60	Graphene-intercalated Fe ₂ O ₃ /TiO ₂ heterojunctions for efficient photoelectrolysis of water. <i>RSC Advances</i> , 2015, 5, 101401-101407.	3.6	9
61	Selective Delamination upon Femtosecond Laser Ablation of Ceramic Surfaces. <i>Physical Review Applied</i> , 2019, 11, .	3.8	9
62	Experimental estimation of the surface charge density in micro dielectric barrier discharges. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 355205.	2.8	8
63	Polydisperse NiTi nanoparticles investigated by X-ray standing waves and electron microscopy – A comparative study. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 98, 60-64.	2.9	6
64	Optical assembly of microsnap-fits fabricated by two-photon polymerization. <i>Optical Engineering</i> , 2017, 56, 1.	1.0	6
65	Two-photon polymerization with diode lasers emitting ultrashort pulses with high repetition rate. <i>Optics Letters</i> , 2020, 45, 4827.	3.3	6
66	Experimental and numerical study of surface alloying by femtosecond laser radiation. <i>Applied Surface Science</i> , 2012, 258, 2576-2579.	6.1	5
67	The Effect of Laser Nitriding on Surface Characteristics and Wear Resistance of NiTi Alloy with Low Power Fiber Laser. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 515.	2.5	5
68	Femtosecond laser shock peening of galvanized stainless steel. <i>Procedia CIRP</i> , 2018, 74, 320-323.	1.9	4
69	Laser Printing of Plasmonic Nanosponges. <i>Nanomaterials</i> , 2020, 10, 2427.	4.1	4
70	The production of free-standing large aspect ratio metal nanofilms by femtosecond laser separation. <i>Nanotechnology</i> , 2009, 20, 275609.	2.6	3
71	Resolution and aspect ratio in two-photon lithography of positive photoresist. <i>Journal of Laser Applications</i> , 2014, 26, 022002.	1.7	3
72	Femtosecond laser shock peening on the surface of NiTi shape memory alloy. <i>Procedia CIRP</i> , 2020, 94, 910-913.	1.9	3

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73	Mode-locked diode laser-based two-photon polymerisation. Electronics Letters, 2020, 56, 91-93.	1.0	3
74	Redistribution of deep selenium and sulfur impurities in silicon upon surface doping with phosphorus. Semiconductors, 2009, 43, 710-715.	0.5	2
75	Investigation of Laser-Induced Periodic Surface Structures Using Synthetic Optical Holography. Nanomaterials, 2022, 12, 505.	4.1	2
76	Graphene oxide reduction induced by femtosecond laser irradiation. , 2017, , .		1
77	GPGPU-basierte Echtzeitdetektion von Nanoobjekten mittels Plasmonen-unterstützter Mikroskopie. Informatik Aktuell, 2011, , 39-43.	0.6	1
78	Printing structural colors via direct laser writing. , 2018, , .		1
79	Optimization of processing parameters of ultrashort (100-fs) pulsed laser shock peening of stainless steel. Journal of Laser Applications, 2021, 33, .	1.7	1
80	Theoretical simulation and experimental verification of dynamic caustic manipulation using a deformable mirror for laser material processing. Optics and Laser Technology, 2022, 149, 107814.	4.6	1
81	Laser scribing of ITO/ZnO thin films on flexible PET-foil for roll-to-roll production of polymer solar cells. , 2012, , .		0
82	Ex-situ preparation of high-conductive polymer/SWNTs nanocomposites for structure fabrication. Proceedings of SPIE, 2014, , .	0.8	0
83	Influence of solvent mixture on the ablation rate of iron using femtosecond laser pulses. , 2017, , .		0
84	Selective Delamination of Thin Films from Ceramic Surfaces upon Femtosecond Laser Ablation. , 2019, , .		0
85	Laser shock peening on high-strength steel. , 2020, , .		0