Vitaly I Konov

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.

5,646 376 38 57 h-index g-index citations papers 6,265 2.3 417 5.32 avg, IF L-index ext. papers ext. citations

#	Paper	IF	Citations
376	Femtosecond laser interferometry of microsized absorptive plasma. <i>Laser Physics Letters</i> , 2021 , 18, 016	50Ω §	1
375	Silicon diffractive optical element with piecewise continuous profile to focus high-power terahertz radiation into a square area. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021 , 38, B9	1.7	2
374	Diamond composite with embedded YAG:Ce nanoparticles as a source of fast X-ray luminescence in the visible and near-IR range. <i>Carbon</i> , 2021 , 174, 52-58	10.4	6
373	Blister-Based Laser-Induced Forward Transfer of Luminescent Diamond Nanoparticles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2000269	1.6	1
372	Diamond diffractive lens with a continuous profile for powerful terahertz radiation. <i>Optics Letters</i> , 2021 , 46, 340-343	3	5
371	Synthesis of Multilayered Diamond Films in Microwave Plasma with Periodic Nitrogen Injections. <i>Doklady Physics</i> , 2021 , 66, 42-44	0.8	
370	Substrates with Diamond Heat Sink for Epitaxial GaN Growth. <i>Technical Physics Letters</i> , 2021 , 47, 353-3	5 6 .7	
369	Printing of Crumpled CVD Graphene via Blister-Based Laser-Induced Forward Transfer. <i>Nanomaterials</i> , 2020 , 10,	5.4	8
368	Evolution of surface relief of epitaxial diamond films upon growth resumption by microwave plasma chemical vapor deposition. <i>CrystEngComm</i> , 2020 , 22, 2138-2146	3.3	4
367	Dynamics of optical polarizability of liquid water exposed to intense laser light. <i>Optics Letters</i> , 2020 , 45, 256	3	4
366	Optical properties of water relaxing after intense laser exposure. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020 , 37, 2615	1.7	3
365	Silicon kinoform cylindrical lens with low surface roughness for high-power terahertz radiation. <i>Optics and Laser Technology</i> , 2020 , 123, 105953	4.2	8
364	Laser nanoablation of a diamond surface in air and vacuum. <i>Optics and Laser Technology</i> , 2020 , 131, 106	53 9.6	2
363	Diamond Detector With Laser-Formed Buried Graphitic Electrodes: Micron-Scale Mapping of Stress and Charge Collection Efficiency. <i>IEEE Sensors Journal</i> , 2019 , 19, 11908-11917	4	9
362	Measuring the Local Thickness of Laser-Induced Graphitized Layer on Diamond Surface by Raman Spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800686	1.3	5
361	Optical spectroscopy characterization of growth hillocks on the surface of homoepitaxial CVD diamond films. <i>Journal of Physics: Conference Series</i> , 2019 , 1199, 012006	0.3	
360	Highly oriented graphite produced by femtosecond laser on diamond. <i>Applied Physics Letters</i> , 2019 , 114, 251903	3.4	3

359	Effect of Diamond Grain Orientation on the Local Conductivity of Laser-Induced Graphitized Surface Layer. <i>Bulletin of the Lebedev Physics Institute</i> , 2019 , 46, 13-15	0.5		
358	Nondestructive diagnostics of diamond coatings of hard-alloy cutters 2019,		1	
357	Printing of single-wall carbon nanotubes via blister-based laser-induced forward transfer. <i>Laser Physics</i> , 2019 , 29, 026001	1.2	5	
356	Residual heat generated during laser processing of CFRP with picosecond laser pulses. <i>Advanced Optical Technologies</i> , 2018 , 7, 157-163	0.9	4	
355	Ablation of steel under surface irradiation by high-intensity tandem pulses. <i>Quantum Electronics</i> , 2018 , 48, 40-44	1.8	2	
354	Fabrication and electrodynamic properties of all-carbon terahertz planar metamaterials by laser direct-write. <i>Laser Physics Letters</i> , 2018 , 15, 036201	1.5	9	
353	High-damage-threshold antireflection coatings on diamond for CW and pulsed CO2lasers. <i>Laser Physics Letters</i> , 2018 , 15, 036001	1.5	4	
352	Heat accumulation between scans during multi-pass cutting of carbon fiber reinforced plastics. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	3	
351	Correlation between surface etching and NV centre generation in laser-irradiated diamond. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	7	
350	All-carbon diamond/graphite metasurface: Experiment and modeling. <i>Applied Physics Letters</i> , 2018 , 113, 041101	3.4	8	
349	Influence of pulse repetition rate and pulse energy on the heat accumulation between subsequent laser pulses during laser processing of CFRP with ps pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	6	
348	Behavior of the Water-Cooled Polycrystalline Diamond Plate at Extreme Densities of Laser Radiation. <i>Physics of Wave Phenomena</i> , 2018 , 26, 75-84	1.2	4	
347	Influence of pulse repetition rate on percussion drilling of Ti-based alloy by picosecond laser pulses. <i>Optics and Lasers in Engineering</i> , 2018 , 103, 65-70	4.6	16	
346	Luminescent diamond window of the sandwich type for X-ray visualization. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	4	
345	Effect of grain orientation on properties of diamond/graphite metasurface fabricated by laser direct-write. <i>Journal of Physics: Conference Series</i> , 2018 , 1092, 012061	0.3	3	
344	Frictional Coefficients between AluminumBilicon Alloy and Cutting Inserts with MPCVD Diamond Coatings. <i>Russian Engineering Research</i> , 2018 , 38, 457-461	1	1	
343	Change in Graphene Electronic Properties in the Presence of Acetone Vapor. <i>Bulletin of the Lebedev Physics Institute</i> , 2018 , 45, 209-213	0.5		
342	Diamond-EuF3 nanocomposites with bright orange photoluminescence. <i>Diamond and Related Materials</i> , 2017 , 72, 47-52	3.5	26	

341	Anomalous enhancement of nanodiamond luminescence upon heating. <i>Laser Physics Letters</i> , 2017 , 14, 025702	1.5	5
340	Plateholder design for deposition of uniform diamond coatings on WC-Co substrates by microwave plasma CVD for efficient turning application. <i>Diamond and Related Materials</i> , 2017 , 75, 169-175	3.5	17
339	Excitation of an electronic subsystem of YAG crystal with femtosecond laser pulses. <i>Laser Physics Letters</i> , 2017 , 14, 066002	1.5	1
338	Use of scanning near-field optical microscope with an aperture probe for detection of luminescent nanodiamonds. <i>Laser Physics</i> , 2017 , 27, 025201	1.2	2
337	Using Si-doped diamond plate of sandwich type for spatial profiling of laser beam. <i>Laser Physics Letters</i> , 2017 , 14, 026003	1.5	1
336	Influence of laser irradiation on local electronic properties of graphene in the presence of water adsorbate. <i>Optics and Laser Technology</i> , 2017 , 90, 216-221	4.2	7
335	Express in situ measurement of epitaxial CVD diamond film growth kinetics. <i>Diamond and Related Materials</i> , 2017 , 72, 61-70	3.5	35
334	Temperature quenching of the luminescence of SiV centers in CVD diamond films. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017 , 81, 1154-1158	0.4	1
333	Effect of laser radiation parameters on the conductivity of structures produced on the polycrystalline diamond surface. <i>Bulletin of the Lebedev Physics Institute</i> , 2017 , 44, 246-248	0.5	2
332	Laser-induced modification of graphene in the presence of ethanol on a graphene ubstrate interface. <i>Quantum Electronics</i> , 2017 , 47, 1017-1022	1.8	3
331	Express in-situ measurement of single crystal diamond growth/etching rate in microwave plasma: how to perform multiparametric kinetics study in one working day. <i>EPJ Web of Conferences</i> , 2017 , 149, 02001	0.3	
330	Nitrogen-vacancy defects in diamond produced by femtosecond laser nanoablation technique. <i>Applied Physics Letters</i> , 2017 , 111, 081101	3.4	38
329	Optical emission spectroscopy for diagnosis of diamond growth and etching processes in microwave plasma. <i>EPJ Web of Conferences</i> , 2017 , 149, 02013	0.3	1
328	Low-coherence interferometry as a tool for monitoring laser micro- and nanoprocessing of diamond surfaces. <i>Quantum Electronics</i> , 2017 , 47, 1012-1016	1.8	2
327	Trapped electronic states in YAG crystal excited by femtosecond radiation. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	6
326	Nano-carbon pixels array for ionizing particles monitoring. <i>Diamond and Related Materials</i> , 2017 , 73, 1	32 ₃ 1 3 6	15
325	Processing constraints resulting from heat accumulation during pulsed and repetitive laser materials processing. <i>Optics Express</i> , 2017 , 25, 3966-3979	3.3	40
324	Launching partnership in optics and photonics education between University of Rochester and Moscow Engineering Physics Institute NRNU MEPhI 2017 ,		1

323	Diamond x-ray refractive lenses produced by femto-second laser ablation 2016 ,		3
322	Diamond detectors with laser induced surface graphite electrodes. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016 , 837, 136-142	1.2	19
321	Laser nanoablation of diamond surface at high pulse repetition rates. <i>Quantum Electronics</i> , 2016 , 46, 899-902	1.8	2
320	Laser structuring of the diamond surface in the nanoablation regime. <i>Quantum Electronics</i> , 2016 , 46, 1154-1158	1.8	2
319	Diamond device architectures for UV laser monitoring. <i>Laser Physics</i> , 2016 , 26, 084005	1.2	19
318	External-cavity diamond Raman laser performance at 1240 nm and 1485 nm wavelengths with high pulse energy. <i>Laser Physics Letters</i> , 2016 , 13, 065001	1.5	9
317	Pulsed periodic laser excitation of upconversion luminescence for deep biotissue visualization. <i>Laser Physics</i> , 2016 , 26, 084001	1.2	11
316	Laser induced modification of mechanical properties of nanostructures: grapheneWater adsorbateBubstrate. <i>Laser Physics</i> , 2016 , 26, 084002	1.2	3
315	Delocalization of femtosecond laser radiation in crystalline Si in the mid-IR range. <i>Laser Physics</i> , 2016 , 26, 016101	1.2	28
314	Fabrication of polycrystalline diamond refractive X-ray lens by femtosecond laser processing. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	19
313	Confocal luminescence study of nitrogen-vacancy distribution within nitrogen-rich single crystal CVD diamond. <i>Laser Physics</i> , 2016 , 26, 015202	1.2	2
312	Manipulations with diamond nanoparticles in SPM: the effect of electric field of the conductive probe tip. <i>Bulletin of the Lebedev Physics Institute</i> , 2016 , 43, 356-360	0.5	1
311	Fabrication of High-effective Silicon Diffractive Optics for the Terahertz Range by Femtosecond Laser Ablation. <i>Physics Procedia</i> , 2016 , 84, 170-174		11
310	On the role of multiphoton light absorption in pulsed laser nanoablation of diamond. <i>Quantum Electronics</i> , 2016 , 46, 125-127	1.8	2
309	SPM probe-assisted surface nanostructuring of boron-doped diamond. <i>Nanotechnologies in Russia</i> , 2016 , 11, 73-77	0.6	1
308	Latent laser-induced graphitization of diamond. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	6
307	Direct observation of graphenic nanostructures inside femtosecond-laser modified diamond. <i>Carbon</i> , 2016 , 102, 383-389	10.4	18
306	Color Centers in Silic On-Doped Diamond Films. <i>Journal of Applied Spectroscopy</i> , 2016 , 83, 229-233	0.7	3

305	Detection of Luminescent Nanodiamonds Using a Scanning Near-Field Optical Microscope with an Aperture Probe. <i>Journal of Applied Spectroscopy</i> , 2016 , 83, 639-642	0.7	2
304	Resonant ablation of single-wall carbon nanotubes by femtosecond laser pulses. <i>Laser Physics</i> , 2015 , 25, 015902	1.2	4
303	Photodynamic effect of iron(III) oxide nanoparticles coated with zinc phthalocyanine. <i>Russian Journal of General Chemistry</i> , 2015 , 85, 338-340	0.7	3
302	UV laser induced changes to morphological, optical and electrical properties of conductive nanocrystalline diamond films. <i>Diamond and Related Materials</i> , 2015 , 58, 196-199	3.5	3
301	Nonlinear photooxidation of diamond surface exposed to femtosecond laser pulses. <i>Laser Physics Letters</i> , 2015 , 12, 096101	1.5	9
300	Observation of the Ge-vacancy color center in microcrystalline diamond films. <i>Bulletin of the Lebedev Physics Institute</i> , 2015 , 42, 165-168	0.5	37
299	Si-doped nano- and microcrystalline diamond films with controlled bright photoluminescence of silicon-vacancy color centers. <i>Diamond and Related Materials</i> , 2015 , 56, 23-28	3.5	49
298	Strength of synthetic diamonds under tensile stresses produced by picosecond laser action. <i>Journal of Applied Mechanics and Technical Physics</i> , 2015 , 56, 143-149	0.6	5
297	Synthesis and doping of microcolumn diamond photoemitters with silicon-vacancy color centers. Bulletin of the Lebedev Physics Institute, 2015 , 42, 63-66	0.5	1
296	Graphitization wave in diamond bulk induced by ultrashort laser pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 119, 405-414	2.6	14
295	Three-dimensional graphite electrodes in CVD single crystal diamond detectors: Charge collection dependence on impinging particles geometry. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015 , 799, 10-16	1.2	18
294	Photoinduced graphitization of diamond. <i>Laser Physics Letters</i> , 2015 , 12, 016101	1.5	10
293	Fabrication of diamond microstub photoemitters with strong photoluminescence of SiV color centers: bottom-up approach. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 118, 17-21	2.6	15
292	Nanodiamond Emitters of Single Photons. <i>EPJ Web of Conferences</i> , 2015 , 103, 01013	0.3	O
291	Heat accumulation effects in short-pulse multi-pass cutting of carbon fiber reinforced plastics. Journal of Applied Physics, 2015 , 118, 103105	2.5	12
290	Fabrication of a multilevel THz Fresnel lens by femtosecond laser ablation. <i>Quantum Electronics</i> , 2015 , 45, 933-936	1.8	21
289	Use of Optical Spectroscopy Methods to Determine the Solubility Limit for Nitrogen in Diamond Single Crystals Synthesized by Chemical Vapor Deposition. <i>Journal of Applied Spectroscopy</i> , 2015 , 82, 242-247	0.7	8
288	Carbon photonics. <i>Quantum Electronics</i> , 2015 , 45, 1043-1049	1.8	10

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287	Water at the grapheneBubstrate interface: interaction with short laser pulses. <i>Quantum Electronics</i> , 2015 , 45, 1166-1170	1.8	6
286	Laser-induced local profile transformation of multilayered graphene on a substrate. <i>Optics and Laser Technology</i> , 2015 , 69, 34-38	4.2	13
285	All-carbon detector with buried graphite pillars in CVD diamond. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 114, 297-300	2.6	34
284	Fundamentals of Laser-Assisted Micro- and Nanotechnologies. <i>Springer Series in Materials Science</i> , 2014 ,	0.9	8
283	Molecular-sized fluorescent nanodiamonds. <i>Nature Nanotechnology</i> , 2014 , 9, 54-8	28.7	185
282	Modeling the effect of fs light delocalization in Si bulk. <i>Laser Physics Letters</i> , 2014 , 11, 036002	1.5	8
281	Hardness of single-crystal CVD diamond and phase transformations in it on indentation. <i>Journal of Superhard Materials</i> , 2014 , 36, 297-302	0.9	Ο
280	Experimental investigation into polycrystalline and single-crystal diamonds under negative pressures formed by picosecond laser pulses. <i>Doklady Physics</i> , 2014 , 59, 309-312	0.8	1
279	Structure and properties of impact diamonds from the Popigai Deposit and polycrystals based on them. <i>Journal of Superhard Materials</i> , 2014 , 36, 156-164	0.9	1
278	Microwave plasma deposition and mechanical treatment of single crystals and polycrystalline diamond films. <i>Inorganic Materials: Applied Research</i> , 2014 , 5, 230-236	0.6	1
277	Generation of negative pressures and spallation phenomena in diamond exposed to a picosecond laser pulse. <i>Quantum Electronics</i> , 2014 , 44, 530-534	1.8	13
276	Multi-octave frequency comb generation by (B)-nonlinear optical processes in CVD diamond at low temperatures. <i>Laser Physics Letters</i> , 2014 , 11, 086101	1.5	16
275	Beta particles sensitivity of an all-carbon detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014 , 738, 119-12	5 ^{1.2}	10
274	Propagation and absorption of high-intensity femtosecond laser radiation in diamond. <i>Quantum Electronics</i> , 2014 , 44, 1099-1103	1.8	8
273	Photoluminescence of Si-vacancy color centers in diamond films grown in microwave plasma in methane-hydrogen-silane mixtures. <i>Bulletin of the Lebedev Physics Institute</i> , 2014 , 41, 359-363	0.5	5
272	Laser nanoablation of graphite in argon atmosphere. <i>Bulletin of the Lebedev Physics Institute</i> , 2014 , 41, 329-331	0.5	1
271	Diamond photonic crystals for the IR spectral range. Optics Letters, 2014, 39, 6962-5	3	16
270	Oxygen-assisted multipass cutting of carbon fiber reinforced plastics with ultra-short laser pulses. Journal of Applied Physics, 2014 , 115, 103107	2.5	12

269	Fs Laser Induced Reversible and Irreversible Processes in Transparent Bulk Material. <i>Springer Series in Materials Science</i> , 2014 , 247-268	0.9	
268	Laser nanoablation of graphite. Applied Physics A: Materials Science and Processing, 2014, 114, 51-55	2.6	4
267	Optical Breakdown in Ambient Gas and Its Role in Material Processing by Short-Pulsed Lasers. Springer Series in Materials Science, 2014 , 77-99	0.9	3
266	Influence of plastic deformation in processes of agglomeration of the diamond hybrid material on structure and hardness of CVD-diamond. <i>Functional Materials</i> , 2014 , 21, 274-281	0.6	
265	Photonic crystals of diamond spheres with the opal structure. <i>Physics of the Solid State</i> , 2013 , 55, 1120-	11123	5
264	Laser-driven high-frequency vibrations of metal blister surface. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 112, 583-589	2.6	
263	Laser breakdown in air at ultrahigh laser pulse repetition rates. <i>Quantum Electronics</i> , 2013 , 43, 356-360	1.8	2
262	Observation of fs laser-induced heat dissipation in diamond bulk. <i>Laser Physics Letters</i> , 2013 , 10, 036003	3 1.5	17
261	Effect of the surface state on pulsed laser etching of ultrananocrystalline nitrogen-doped diamond films. <i>Bulletin of the Lebedev Physics Institute</i> , 2013 , 40, 354-356	0.5	
260	Effect of laser pulse repetition frequency on the optical breakdown threshold of quartz glass. <i>Quantum Electronics</i> , 2013 , 43, 731-734	1.8	
259	Diamond polycrystalline composite material with dispersion-hardened nickel-based additive. Journal of Superhard Materials, 2013 , 35, 327-329	0.9	3
258	SPM bipolar pulsed nanostructuring of graphitic layers. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 110, 317-319	2.6	1
257	Polycrystalline CVD diamond pixel array detector for nuclear particles monitoring. <i>Journal of Instrumentation</i> , 2013 , 8, C02043-C02043	1	18
256	Laser Micro- and Nanoprocessing of Diamond Materials 2013 , 385-443		5
255	Peculiarities of laser-induced material transformation inside diamond bulk. <i>Diamond and Related Materials</i> , 2013 , 37, 50-54	3.5	25
254	Diamond-graphite pixel array for particles detection. <i>Journal of Instrumentation</i> , 2013 , 8, C10013-C1001	3	4
253	Percolation model of an insulator-conductor transition in ultrananocrystalline diamond films. <i>JETP Letters</i> , 2012 , 95, 391-395	1.2	9
252	Enhancement of intrinsic protein luminescence in nanosized complex. <i>Doklady Biochemistry and Biophysics</i> , 2012 , 444, 165-6	0.8	1

251	The determination of key factors for low-field electron emission from carbon nanostructures. <i>Nanotechnologies in Russia</i> , 2012 , 7, 36-40	0.6	3
250	Polycrystalline diamond UV-triggered MESFET receivers. <i>Nanotechnology</i> , 2012 , 23, 075202	3.4	6
249	Resistance of diamond optics to high-power fiber laser radiation. Russian Microelectronics, 2012 , 41, 464	1 -4.6 8	11
248	Growth of single-crystal diamonds in microwave plasma. <i>Plasma Physics Reports</i> , 2012 , 38, 1113-1118	1.2	11
247	Stimulation of the diamond nucleation on silicon substrates with a layer of a polymeric precursor in deposition of diamond films by microwave plasma. <i>Journal of Superhard Materials</i> , 2012 , 34, 37-43	0.9	2
246	Fabrication of graphene nanostructures by probe nanoablation. <i>Bulletin of the Lebedev Physics Institute</i> , 2012 , 39, 330-333	0.5	2
245	Excitation of the electronic subsystem of silicon by femtosecond laser irradiation. <i>Quantum Electronics</i> , 2012 , 42, 925-930	1.8	8
244	Increasing the output power of single 808-nm laser diodes using diamond submounts produced by microwave plasma chemical vapour deposition. <i>Quantum Electronics</i> , 2012 , 42, 959-960	1.8	9
243	Fracture strength of optical quality and black polycrystalline CVD diamonds. <i>Diamond and Related Materials</i> , 2012 , 23, 172-177	3.5	43
242	Synthesis of composites with alternating layers of poly(vinyl chloride) and single-wall carbon nanotubes homogeneously dispersed in carboxymethyl cellulose. <i>Polymer Science - Series A</i> , 2012 , 54, 34-38	1.2	3
241	Laser in micro and nanoprocessing of diamond materials. Laser and Photonics Reviews, 2012, 6, 739-766	8.3	69
240	Surface channel MESFETs on hydrogenated diamond. <i>Nanotechnology</i> , 2012 , 23, 025201	3.4	11
239	Delocalization of femtosecond radiation in silicon. <i>Optics Letters</i> , 2012 , 37, 3369-71	3	41
238	Electro Mechanical Scanning Probe Lithography of Carbon Nanostructures. <i>Journal of Physics:</i> Conference Series, 2011 , 291, 012035	0.3	3
237	Strength of optical quality polycrystalline CVD diamond. <i>Inorganic Materials: Applied Research</i> , 2011 , 2, 439-444	0.6	5
236	Laser-plasma micro- and nanotechnologies. Herald of the Russian Academy of Sciences, 2011 , 81, 252-260	0 0.7	
235	Study of reaction of a viscous oil structure on actions by a physical field. <i>Doklady Earth Sciences</i> , 2011 , 437, 401-406	0.6	1
234	Activation of color centers in bismuth glass by femtosecond laser radiation. <i>Laser Physics</i> , 2011 , 21, 158	5£.12592	2 6

233	Synthesis of carbon films by magnetron sputtering of a graphite target using hydrogen as plasma-forming gas. <i>Bulletin of the Lebedev Physics Institute</i> , 2011 , 38, 263-266	0.5	9
232	Gas-phase growth of silicon-doped luminescent diamond films and isolated nanocrystals. <i>Bulletin of the Lebedev Physics Institute</i> , 2011 , 38, 291-296	0.5	19
231	Combined spectroscopic method for determining the fluorophore concentration in highly scattering media. <i>Bulletin of the Lebedev Physics Institute</i> , 2011 , 38, 334-338	0.5	5
230	Shadowgraphic imaging of laser transfer driven by metal film blistering. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 102, 49-54	2.6	10
229	Conical emission in focused beams: analysis of contributing factors and elimination of scattering. <i>Applied Physics B: Lasers and Optics</i> , 2011 , 105, 495-501	1.9	5
228	Tailoring immobilization of immunoglobulin by excimer laser for biosensor applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 96, 384-94	5.4	11
227	Three-dimensional laser writing in diamond bulk. <i>Diamond and Related Materials</i> , 2011 , 20, 264-268	3.5	35
226	Laser Induced Rise of Luminescence Efficiency in Bi-Doped Glass. <i>Physics Procedia</i> , 2011 , 12, 156-163		4
225	Laser Induced Nanoablation of Diamond Materials. <i>Physics Procedia</i> , 2011 , 12, 37-45		47
224	Fibreoptic diffuse-light irradiators of biological tissues. <i>Quantum Electronics</i> , 2010 , 40, 746-750	1.8	5
223	Choice of a target with metal coating for laser-induced transfer of ultradispersed materials. Quantum Electronics, 2010 , 40, 1034-1040	1.8	5
223		0.9	5
	Quantum Electronics, 2010 , 40, 1034-1040		
222	Quantum Electronics, 2010, 40, 1034-1040 Novel hybrid ultrahard material. Journal of Superhard Materials, 2010, 32, 293-300 Application of aluminum phthalocyanine nanoparticles for fluorescent diagnostics in dentistry and	0.9	17
222	Novel hybrid ultrahard material. <i>Journal of Superhard Materials</i> , 2010 , 32, 293-300 Application of aluminum phthalocyanine nanoparticles for fluorescent diagnostics in dentistry and skin autotransplantology. <i>Journal of Biophotonics</i> , 2010 , 3, 336-46	0.9	17 21
222 221 220	Novel hybrid ultrahard material. <i>Journal of Superhard Materials</i> , 2010 , 32, 293-300 Application of aluminum phthalocyanine nanoparticles for fluorescent diagnostics in dentistry and skin autotransplantology. <i>Journal of Biophotonics</i> , 2010 , 3, 336-46 3D nanotube-based composites produced by laser irradiation. <i>Quantum Electronics</i> , 2009 , 39, 337-341 Nanodiamond Photoemitters Based on Strong Narrow-Band Luminescence from Silicon-Vacancy	0.9 3.1 1.8	17 21 3
222 221 220 219	Novel hybrid ultrahard material. <i>Journal of Superhard Materials</i> , 2010 , 32, 293-300 Application of aluminum phthalocyanine nanoparticles for fluorescent diagnostics in dentistry and skin autotransplantology. <i>Journal of Biophotonics</i> , 2010 , 3, 336-46 3D nanotube-based composites produced by laser irradiation. <i>Quantum Electronics</i> , 2009 , 39, 337-341 Nanodiamond Photoemitters Based on Strong Narrow-Band Luminescence from Silicon-Vacancy Defects. <i>Advanced Materials</i> , 2009 , 21, 808-812 Femtosecond reflectometer with saturable absorber based on single-walled carbon nanotubes.	0.9 3.1 1.8	17 21 3 108

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215	Catalytic synthesis of tubular carbon nanofibers using propagating combustion wave in acetylene. <i>Technical Physics Letters</i> , 2009 , 35, 1065-1067	0.7	
214	Laser ablation of dental materials using a microsecond Nd:YAG laser. <i>Laser Physics</i> , 2009 , 19, 1056-106	0 1.2	47
213	Synthesis of boron nitride multi-walled nanotubes by laser ablation technique. <i>Laser Physics</i> , 2009 , 19, 1198-1200	1.2	19
212	Spectral dependences of conical emission in gases: Minimization of scattering for ultra-short pulsed laser ablation. <i>Laser Physics</i> , 2009 , 19, 1282-1287	1.2	5
211	Laser-induced modification of bulk fused silica by femtosecond pulses. <i>Laser Physics</i> , 2009 , 19, 1294-12	299.2	14
210	Nanotube-based three-dimensional albumin composite obtained using continuous laser radiation. <i>Semiconductors</i> , 2009 , 43, 1714-1718	0.7	4
209	Optical spectroscopy of laser plasma in a deep crater. <i>Quantum Electronics</i> , 2009 , 39, 328-332	1.8	9
208	Femtosecond laser microstructuring in the bulk of diamond. <i>Diamond and Related Materials</i> , 2009 , 18, 196-199	3.5	56
207	Laser "Nano"ablation of Ultrananocrystalline Diamond Films. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2009 , 4, 286-289	1.3	6
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205	Neutron irradiation effects in chemical-vapor-deposited diamond. <i>Physical Review B</i> , 2008 , 78, Study of the optical-discharge plasma in multicomponent mixtures of molecular gases. <i>Quantum Electronics</i> , 2008 , 38, 165-168 Measurement of optical absorption in polycrystalline CVD diamond plates by the phase photothermal method at a wavelength of 10.6 fh. <i>Quantum Electronics</i> , 2008 , 38, 1171-1178 177fs erbium-doped fiber laser mode locked with a cellulose polymer film containing single-wall	3.3 1.8 1.8	12 5 14
205 204 203 202	Neutron irradiation effects in chemical-vapor-deposited diamond. <i>Physical Review B</i> , 2008 , 78, Study of the optical-discharge plasma in multicomponent mixtures of molecular gases. <i>Quantum Electronics</i> , 2008 , 38, 165-168 Measurement of optical absorption in polycrystalline CVD diamond plates by the phase photothermal method at a wavelength of 10.6 fb. <i>Quantum Electronics</i> , 2008 , 38, 1171-1178 177fs erbium-doped fiber laser mode locked with a cellulose polymer film containing single-wall carbon nanotubes. <i>Applied Physics Letters</i> , 2008 , 92, 171113 Microstructuring of diamond bulk by IR femtosecond laser pulses. <i>Applied Physics A: Materials</i>	3.3 1.8 1.8	12 5 14 66
205 204 203 202 201	Neutron irradiation effects in chemical-vapor-deposited diamond. <i>Physical Review B</i> , 2008 , 78, Study of the optical-discharge plasma in multicomponent mixtures of molecular gases. <i>Quantum Electronics</i> , 2008 , 38, 165-168 Measurement of optical absorption in polycrystalline CVD diamond plates by the phase photothermal method at a wavelength of 10.6 fb. <i>Quantum Electronics</i> , 2008 , 38, 1171-1178 177fs erbium-doped fiber laser mode locked with a cellulose polymer film containing single-wall carbon nanotubes. <i>Applied Physics Letters</i> , 2008 , 92, 171113 Microstructuring of diamond bulk by IR femtosecond laser pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 90, 645-651 Thermal conductivity of polycrystalline CVD diamond: effect of annealing-induced transformations of defects and grain boundaries. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 ,	3.3 1.8 1.8 3.4	12 5 14 66 79

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