

# Mikhail N Shneider

## List of Publications by Year in descending order

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233  
papers

5,205  
citations

81743

39  
h-index

118652

62  
g-index

238  
all docs

238  
docs citations

238  
times ranked

2469  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of the efficiency of MHD cycle supported by ns pulsed discharge pre-ionization. , 2022, , .		0
2	2D Modeling of Plasma Dynamic Contraction in the Positive Column of Glow Discharge. , 2022, , .		2
3	Analysis of coherent Thomson scattering from a low temperature plasma. Physics of Plasmas, 2022, 29, 033507.	0.7	0
4	Theoretical model of external spinal cord stimulation. Physical Biology, 2022, 19, 044001.	0.8	2
5	Atomic model best suited for physical optics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 387, 127031.	0.9	0
6	Displacement of energy deposition during formation of nanosecond laser plasmas by self-defocusing. Laser Physics Letters, 2021, 18, 036001.	0.6	0
7	Cavitation model of the inflationary stage of Big Bang. Physics of Fluids, 2021, 33, 017116.	1.6	2
8	Demonstration of single shot laser velocimetry with coherent Rayleigh-Brillouin scattering. , 2021, , .		2
9	Simulation of decelerating streamers in inhomogeneous atmosphere with implications for runaway electron generation. Journal of Applied Physics, 2021, 129, .	1.1	25
10	Plasma defocusing in dual-pulse laser ignition. Journal Physics D: Applied Physics, 2021, 54, 225205.	1.3	5
11	Dynamics and chemical mode analysis of plasma thermal-chemical instability. Plasma Sources Science and Technology, 2021, 30, 035002.	1.3	21
12	Electron generation and multiplication at the initial stage of nanosecond breakdown in water. Journal of Applied Physics, 2021, 129, .	1.1	5
13	Two-color scattering for the measurement of neutrals at the edge of fusion devices. Review of Scientific Instruments, 2021, 92, 063515.	0.6	1
14	Streamer self-focusing in an external longitudinal magnetic field. Physical Review E, 2021, 103, 063201.	0.8	14
15	Runaway Electron Generation by Decelerating Streamers in Inhomogeneous Atmosphere. , 2021, , .		0
16	Coherent microwave scattering from resonance enhanced multi-photon ionization (radar REMPI): a review. Plasma Sources Science and Technology, 2021, 30, 103001.	1.3	12
17	Thomson and collisional regimes of in-phase coherent microwave scattering off gaseous microplasmas. Scientific Reports, 2021, 11, 23389.	1.6	8
18	Microwave Detection of REMPI for Diagnostics of Densities of Gaseous Species in Mixtures at Elevated Pressures. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
19	Plasma-Assisted Fuel Atomization and Multipoint Ignition for Scramjet Engines. Journal of Propulsion and Power, 2020, 36, 357-362.	1.3	9
20	Optimization of Filtered Rayleigh Scattering for the Measurement of Pressure and Temperature. Combustion Science and Technology, 2020, , 1-19.	1.2	5
21	Diagnostics of CO concentration in gaseous mixtures at elevated pressures by resonance enhanced multi-photon ionization and microwave scattering. Journal of Applied Physics, 2020, 128, 141301.	1.1	11
22	Gas flow velocity and density limit estimates for single shot coherent Rayleigh-Brillouin scattering. , 2020, , .		0
23	Coherent microwave scattering from xenon resonance-enhanced multiphoton ionization-initiated plasma in air. Journal of Applied Physics, 2020, 127, .	1.1	7
24	Modeling of laser ignition in hydrogen-air mixture. , 2020, , .		9
25	Thermal-Chemical Plasma Instability in a Reacting Flow. , 2020, , .		0
26	Predicted response of an atom to a short burst of electro-magnetic radiation. OSA Continuum, 2020, 3, 186.	1.8	2
27	Dipole scattering of a short radiation pulse on hydrogen-like atoms. OSA Continuum, 2020, 3, 1819.	1.8	1
28	On the possible mechanisms of the selective effect of a non-equilibrium plasma on healthy and cancer cells in a physiological solution. Plasma Research Express, 2019, 1, 045001.	0.4	1
29	Thermal-chemical instability of weakly ionized plasma in a reactive flow. Journal Physics D: Applied Physics, 2019, 52, 484001.	1.3	29
30	Measurement of temperature dependent absorption coefficient of water at 1064nm wavelength. AIP Advances, 2019, 9, .	0.6	9
31	Magnetically Induced Depolarization of Microwave Scattering from a Laser-Generated Plasma. Physical Review Applied, 2019, 12, .	1.5	5
32	Growth of nanoparticles in dynamic plasma. Physical Review E, 2019, 99, 063205.	0.8	17
33	Kinetics model of femtosecond laser ionization in nitrogen and comparison to experiment. Journal of Applied Physics, 2019, 125, .	1.1	12
34	Dynamic modeling of carbon nanofiber growth in strong electric fields via plasma-enhanced chemical vapor deposition. Journal of Applied Physics, 2019, 125, .	1.1	5
35	Stimulated activity in the neural tissue. Journal of Applied Physics, 2019, 125, 211101.	1.1	5
36	Direct measurement of electron numbers created at near-infrared laser-induced ionization of various gases. Journal of Applied Physics, 2019, 125, 193301.	1.1	8

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37	Radar REMPI Measurements in the Presence of a Magnetic Field. , 2019, , .		1
38	Towards single shot gas flow velocity and temperature measurements with coherent Rayleigh-Brillouin scattering. , 2019, , .		1
39	Mathematical modeling of dual-pulse laser ignition in a turbulent flow. , 2019, , .		2
40	Analysis of harmonic generation by a hydrogen-like atom using a quasi-classical non-linear oscillator model with realistic electron potential. OSA Continuum, 2019, 2, 2343.	1.8	3
41	Four-Wave-Mixing Approach to <i>In Situ</i> Detection of Nanoparticles. Physical Review Applied, 2018, 9, .	1.5	20
42	Counting the electrons in a multiphoton ionization by elastic scattering of microwaves. Scientific Reports, 2018, 8, 2874.	1.6	44
43	Filament-Initiated Lasing in Neutral Molecular Nitrogen. Springer Series in Optical Sciences, 2018, , 89-120.	0.5	0
44	Mathematical Model of Dual-Pulse Laser Ignition. Journal of Propulsion and Power, 2018, 34, 408-414.	1.3	22
45	Average electron temperature estimation of streamer discharge in ambient air. Review of Scientific Instruments, 2018, 89, 113502.	0.6	17
46	Dual-pulse laser ignition model. Physics of Fluids, 2018, 30, .	1.6	31
47	Particle-in-cell modeling of laser Thomson scattering in low-density plasmas at elevated laser intensities. Physics of Plasmas, 2018, 25, 053513.	0.7	3
48	Effect of weakly ionized plasma on osmotic pressure on cell membranes in a saline. Journal of Applied Physics, 2018, 123, 204701.	1.1	5
49	<i>In situ</i> diagnostics for nanomaterial synthesis in carbon arc plasma. Plasma Sources Science and Technology, 2018, 27, 084001.	1.3	11
50	Modeling of Dual-Pulse Laser Ignition. , 2017, , .		1
51	Characterization of intermediate reactions following femtosecond laser excitation in argon-nitrogen mixtures. , 2017, , .		7
52	In situ Characterization of Nanoparticles Using Rayleigh Scattering. Scientific Reports, 2017, 7, 40230.	1.6	22
53	Modeling of the FLEET Filament Interaction with a Nonuniform Gas Flow. , 2017, , .		3
54	Laser Induced $\alpha$ -Counter-Convection in Water. , 2017, , .		0

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55	An all-optical, in situ diagnostic for large molecule and nanoparticle detection. Proceedings of SPIE, 2017, , .	0.8	3
56	Initial stage of cavitation in liquids and its observation by Rayleigh scattering. Fluid Dynamics Research, 2017, 49, 035503.	0.6	10
57	Femtosecond filament initiated, microwave heated cavity-free nitrogen laser in air. Journal of Applied Physics, 2017, 121, .	1.1	6
58	The cutting mechanism of the electrosurgical scalpel. Journal Physics D: Applied Physics, 2017, 50, 025401.	1.3	13
59	Ponderomotive perturbations of low density low-temperature plasma under laser Thomson scattering diagnostics. Physics of Plasmas, 2017, 24, .	0.7	12
60	Sound produced by an oscillating arc in a high-pressure gas. Journal of Applied Physics, 2017, 122, .	1.1	5
61	Remote-sensing gas measurements with coherent Rayleigh-Brillouin scattering. Applied Physics Letters, 2016, 109, .	1.5	19
62	Modeling thermionic emission from laser-heated nanoparticles. Applied Physics Letters, 2016, 108, .	1.5	24
63	Ponderomotive convection in water induced by a CW laser. Journal of Applied Physics, 2016, 120, 244902.	1.1	3
64	Polarization forces in the vicinity of nanoparticles in weakly ionized plasma. Physics of Plasmas, 2016, 23, 094505.	0.7	5
65	Cross-sections for neutral atoms and molecules collisions with charged spherical nanoparticle. Physics of Plasmas, 2016, 23, 124503.	0.7	4
66	Simulation of non-resonant gas-optical lattice interaction. AIP Conference Proceedings, 2016, , .	0.3	0
67	Non-resonant gas-optical lattice interaction with feedback from the gas to the laser radiation. AIP Conference Proceedings, 2016, , .	0.3	0
68	2-D model of the streamer zone of a leader. Journal of Plasma Physics, 2016, 82, .	0.7	10
69	Similarity analysis of the streamer zone of Blue jets. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 147, 121-125.	0.6	12
70	Suppression of laser breakdown by pulsed nonequilibrium ns discharge. Plasma Sources Science and Technology, 2016, 25, 054008.	1.3	5
71	Comment on "Non-thermal mechanism of weak microwave fields influence on neurons" [J. Appl. Phys. <b>114</b>, 104701 (2013)]. Journal of Applied Physics, 2016, 119, .	1.1	3
72	Carbon Nanoparticles in the Radiation and Acoustic fields the Vicinity of the Arc Discharge. , 2016, , .		0

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73	Detailed Modeling of Plasmas for Computational Aerodynamics. AIAA Journal, 2016, 54, 898-911.	1.5	23
74	Rayleigh scattering on the cavitation region emerging in liquids. Optics Letters, 2016, 41, 1090.	1.7	3
75	Ignition by Short Duration, Nonequilibrium Plasma: Basic Concepts and Applications in Internal Combustion Engines. Combustion Science and Technology, 2016, 188, 831-852.	1.2	19
76	Self-focusing threshold of a beam of laser radiation in rubidium vapor. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2016, 83, 667.	0.2	2
77	Pre-breakdown processes in dielectric fluid in inhomogeneous pulsed electric fields. , 2015, , .		0
78	Time-resolved laser-induced incandescence from multiwalled carbon nanotubes in air. Applied Physics Letters, 2015, 106, .	1.5	9
79	Correlation of action potentials in adjacent neurons. Physical Biology, 2015, 12, 066009.	0.8	18
80	New diagnostic methods for laser plasma- and microwave-enhanced combustion. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140338.	1.6	14
81	Electromagnetic beam propagation in nonlinear media. High Power Laser Science and Engineering, 2015, 3, .	2.0	12
82	Theory of a filament initiated nitrogen laser. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 094016.	0.6	36
83	Pre-breakdown cavitation nanopores in the dielectric fluid in the inhomogeneous, pulsed electric fields. Journal Physics D: Applied Physics, 2015, 48, 424009.	1.3	14
84	Modeling weakly-ionized plasmas in magnetic field: A new computationally-efficient approach. Journal of Computational Physics, 2015, 300, 779-799.	1.9	8
85	Pre-breakdown processes in a dielectric fluid in inhomogeneous pulsed electric fields. Journal of Applied Physics, 2015, 117, .	1.1	26
86	Carbon nanoparticles in the radiation field of the stationary arc discharge. Physics of Plasmas, 2015, 22, .	0.7	14
87	Dynamic contraction of the positive column of a self-sustained glow discharge in air flow. Physics of Plasmas, 2014, 21, .	0.7	29
88	Kinetic modeling of evolution of $3\sigma_1$ : Resonance enhanced multiphoton ionization plasma in argon at low pressures. Physics of Plasmas, 2014, 21, .	0.7	4
89	Laser plasma formation assisted by ultraviolet pre-ionization. Physics of Plasmas, 2014, 21, .	0.7	33
90	Initiation and blocking of the action potential in an axon in weak ultrasonic or microwave fields. Physical Review E, 2014, 89, 052713.	0.8	12

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91	Deflection of Streamer Path in DC Electric Potential. IEEE Transactions on Plasma Science, 2014, 42, 2402-2403.	0.6	5
92	Thermal and hydrodynamic effects of nanosecond discharges in atmospheric pressure air. Journal Physics D: Applied Physics, 2014, 47, 235202.	1.3	73
93	Electron and ion transport equations in computational weakly-ionized plasmadynamics. Journal of Computational Physics, 2014, 259, 51-69.	1.9	22
94	Initiation stage of nanosecond breakdown in liquid. Journal Physics D: Applied Physics, 2014, 47, 025502.	1.3	23
95	Theoretical analysis of supercontinuum and coloured conical emission produced during ultrashort laser pulse interaction with gases. Journal Physics D: Applied Physics, 2014, 47, 045503.	1.3	4
96	Model of blue jet formation and propagation in the nonuniform atmosphere. Journal of Geophysical Research: Space Physics, 2014, 119, 5821-5829.	0.8	11
97	Kinetic modeling of the Townsend breakdown in argon. Physics of Plasmas, 2013, 20, .	0.7	16
98	Dielectric fluid in inhomogeneous pulsed electric field. Physical Review E, 2013, 87, 043004.	0.8	51
99	Effect of power losses on self-focusing of high-intensity laser beam in gases. Journal Physics D: Applied Physics, 2013, 46, 185502.	1.3	12
100	On the electrostrictive mechanism of nanosecond-pulsed breakdown in liquid phase. Journal Physics D: Applied Physics, 2013, 46, 162001.	1.3	32
101	Non-equilibrium nanosecond-pulsed plasma generation in the liquid phase (water, PDMS) without bubbles: fast imaging, spectroscopy and leader-type model. Journal Physics D: Applied Physics, 2013, 46, 105201.	1.3	78
102	Sheath governing equations in computational weakly-ionized plasmadynamics. Journal of Computational Physics, 2013, 232, 234-251.	1.9	21
103	Investigation of positive and negative modes of nanosecond pulsed discharge in water and electrostriction model of initiation. Journal Physics D: Applied Physics, 2013, 46, 355201.	1.3	43
104	Single-shot coherent Rayleigh-Brillouin scattering using a chirped optical lattice. Optics Letters, 2013, 38, 4449.	1.7	25
105	Versatile radar measurement of the electron loss rate in air. Applied Physics Letters, 2013, 103, 224102.	1.5	28
106	Non-thermal mechanism of weak microwave fields influence on neurons. Journal of Applied Physics, 2013, 114, .	1.1	17
107	Cavitation in dielectric fluid in inhomogeneous pulsed electric field. Journal of Applied Physics, 2013, 114, .	1.1	24
108	Application of coherent Rayleigh-Brillouin scattering for <i>in situ</i> nanoparticle and large molecule detection. Applied Physics Letters, 2013, 102, .	1.5	15

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109	Experimentally observed field-gas interaction in intense optical lattices. Applied Physics Letters, 2013, 103, 244106.	1.5	2
110	Laser Plasma Formation in Air Using Dual Pulse Pre-ionization. , 2013, , .		14
111	Experimental and numerical analysis of narrowband coherent Rayleigh-Brillouin scattering in atomic and molecular species. Optics Express, 2012, 20, 12975.	1.7	24
112	Measurement of sodium-argon cluster ion recombination by coherent microwave scattering. Applied Physics Letters, 2012, 100, .	1.5	8
113	Electrical parameters of the streamers of the nonequilibrium atmospheric plasma jets. , 2012, , .		0
114	Dispersion of sound induced by a non-resonant interaction of an optical lattice with collisional gases. , 2012, , .		0
115	Influence of turbulent pulsations on the deviation from ionization equilibrium. , 2012, , .		0
116	Coherent microwave radiation from a laser induced plasma. Applied Physics Letters, 2012, 101, 264105.	1.5	5
117	Microwave scattering from laser spark in air. Journal of Applied Physics, 2012, 112, 063101.	1.1	4
118	Free-space nitrogen gas laser driven by a femtosecond filament. Physical Review A, 2012, 86, .	1.0	148
119	Measurements of streamer head potential and conductivity of streamer column in cold nonequilibrium atmospheric plasmas. Plasma Sources Science and Technology, 2012, 21, 034006.	1.3	67
120	Dynamic contraction of the positive column of a self-sustained glow discharge in molecular gas. Physics of Plasmas, 2012, 19, .	0.7	25
121	Laser induced avalanche ionization in gases or gas mixtures with resonantly enhanced multiphoton ionization or femtosecond laser pulse pre-ionization. Physics of Plasmas, 2012, 19, .	0.7	25
122	Nanosecond component in a femtosecond laser pulse. Physics of Plasmas, 2012, 19, 113115.	0.7	0
123	Femtosecond laser guiding of a high-voltage discharge and the restoration of dielectric strength in air and nitrogen. Physics of Plasmas, 2012, 19, .	0.7	33
124	Sodium Ion Kinetic Measurements by Coherent Microwave Scattering. , 2012, , .		0
125	Remote steering of laser beams by radar- and laser-induced refractive-index gradients in the atmosphere. Laser Physics Letters, 2012, 9, 68-72.	0.6	5
126	Hydrodynamic flow in a synaptic cleft during exocytosis. European Biophysics Journal, 2012, 41, 73-78.	1.2	1



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127	Dynamic Contraction of the Positive Column of a Glow Discharge in Molecular Gas. , 2012, , .		1
128	Modeling the action-potential-sensitive nonlinear-optical response of myelinated nerve fibers and short-term memory. Journal of Applied Physics, 2011, 110, .	1.1	7
129	Coherent Brillouin scattering. Optics Express, 2011, 19, 24046.	1.7	13
130	Tailoring the air plasma with a double laser pulse. Physics of Plasmas, 2011, 18, .	0.7	93
131	Ignition Delay Time and Laminar Flame Velocity for a Combined Laser-Microwave Ignition. IEEE Transactions on Plasma Science, 2011, 39, 3263-3268.	0.6	5
132	Ambipolar diffusion and drift in computational weakly-ionized plasmadynamics. Journal of Computational Physics, 2011, 230, 8010-8027.	1.9	14
133	Kinetic description of the field-gas interaction in intense optical lattices. Optics Communications, 2011, 284, 1238-1242.	1.0	9
134	Generalized Ohm's law and potential equation in computational weakly-ionized plasmadynamics. Journal of Computational Physics, 2011, 230, 1439-1453.	1.9	17
135	Population inversion of molecular nitrogen in an Ar: N <sub>2</sub> mixture by selective resonance-enhanced multiphoton ionization. Journal of Applied Physics, 2011, 110, .	1.1	39
136	Strong Local-Field Effect on the Dynamics of a Dilute Atomic Gas Irradiated by Two Counterpropagating Optical Fields: Beyond Standard Optical Lattices. Physical Review Letters, 2011, 106, 210403.	2.9	15
137	Laser control of free-carrier density in solids through field-enhanced multiphonon tunneling recombination. Journal of Applied Physics, 2011, 109, 033109.	1.1	8
138	Kinetic Description of Feed-Back Non-Resonant Optical Lattices-Gas Interaction. , 2011, , .		0
139	Shock wave induced by a high-intensity power source in hypersonic flow. Shock Waves, 2010, 20, 131-137.	1.0	1
140	Long-lived laser-induced microwave plasma guides in the atmosphere: Self-consistent plasma-dynamic analysis and numerical simulations. Journal of Applied Physics, 2010, 108, 033113.	1.1	36
141	Biomedical applications and Rayleigh microwave diagnostic of atmospheric plasma jet. , 2010, , .		0
142	Potential micrometeoroid and orbital debris protection system using a gradient magnetic field and magnetic flux compression. Applied Physics Letters, 2010, 97, 054102.	1.5	4
143	Action-potential-encoded second-harmonic generation as an ultrafast local probe for noninvasive membrane diagnostics. Physical Review E, 2010, 81, 031926.	0.8	11
144	Measurement of plasma decay processes in mixture of sodium and argon by coherent microwave scattering. Physics of Plasmas, 2010, 17, 033108.	0.7	11

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145	Jet regime of the afterspark channel decay. <i>Physics of Plasmas</i> , 2010, 17, 053505.	0.7	24
146	Analysis of UV flashes of millisecond scale detected by a low-orbit satellite. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	4
147	Study of streamers in gradient density air: Table top modeling of red sprites. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	21
148	Cavity cooling of an optically trapped nanoparticle. <i>Physical Review A</i> , 2010, 81, .	1.0	130
149	Subcritical microwave coupling to femtosecond and picosecond laser ionization for localized, multipoint ignition of methane/air mixtures. <i>Journal of Applied Physics</i> , 2010, 108, 093308.	1.1	57
150	Streamer- and leader-like processes in the upper atmosphere: Models of red sprites and blue jets. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	48
151	Analysis of diamond film creation by pulsed optical lattices. <i>Diamond and Related Materials</i> , 2010, 19, 50-55.	1.8	1
152	Temporary-resolved measurement of electron density in small atmospheric plasmas. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	88
153	Electrodynamic effects in nanosecond-pulse-sustained long dielectric-barrier-discharge plasma actuators. <i>Applied Physics Letters</i> , 2009, 94, 061503.	1.5	19
154	Numerical study of boundary layer separation control using magnetogasdynamic plasma actuators. <i>Physics of Fluids</i> , 2009, 21, .	1.6	26
155	Three-Dimensional Simulation of the Electric Field and Magnetohydrodynamic Power Generation During Reentry. <i>AIAA Journal</i> , 2009, 47, 1327-1336.	1.5	18
156	Radar REMPI Detection of NO <sub>2</sub> by NO Photo-Fragments. , 2009, , .		2
157	Temporal behavior of cold atmospheric plasma jet. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	104
158	Non-thermal atmospheric pressure plasmas for aeronautic applications. <i>EPJ Applied Physics</i> , 2009, 47, 22802.	0.3	15
159	Spectra of molecular gases trapped in deep optical lattices. <i>Physical Review A</i> , 2008, 77, .	1.0	7
160	Modeling of dielectric barrier discharge plasma actuator in air. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	142
161	Temperature Measurement of Flame by RADAR REMPI of Nitric Oxide. , 2008, , .		3
162	Experimental investigation of dielectric barrier discharge plasma actuators driven by repetitive high-voltage nanosecond pulses with dc or low frequency sinusoidal bias. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	115

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163	Virtual Shapes in Supersonic Flow Control with Energy Addition. Journal of Propulsion and Power, 2008, 24, 900-915.	1.3	44
164	Energy Deposition into a Collisional Gas from Optical Lattices Formed in an Optical Cavity. , 2008, , .		2
165	Simultaneous resonant enhanced multiphoton ionization and electron avalanche ionization in gas mixtures. Journal of Applied Physics, 2008, 104, .	1.1	27
166	Model of UV flashes due to gigantic blue jets. Journal Physics D: Applied Physics, 2008, 41, 234013.	1.3	12
167	Surface charge in dielectric barrier discharge plasma actuators. Physics of Plasmas, 2008, 15, .	0.7	104
168	Electric Charge Buildup in Hypersonic Wind Tunnels with Electron-Beam Energy Addition. AIAA Journal, 2007, 45, 1556-1561.	1.5	1
169	Numerical Study of an Electron-Beam-Confined Faraday Accelerator. Journal of Propulsion and Power, 2007, 23, 1023-1032.	1.3	10
170	Microwave Scattering from Laser Ionized Molecules: A New Approach to Nonintrusive Diagnostics. AIAA Journal, 2007, 45, 513-515.	1.5	52
171	Microscale Thrusters with Pulsed Optical Lattices/Gas Nonresonant Dipole Interaction. Journal of Propulsion and Power, 2007, 23, 1263-1270.	1.3	1
172	Gas mixing with pulsed optical lattices. Physics of Fluids, 2007, 19, .	1.6	2
173	Plasma induced by resonance enhanced multiphoton ionization in inert gas. Journal of Applied Physics, 2007, 102, 123103.	1.1	26
174	RADAR REMPI: A New Approach to Detection, Spectroscopy, and the Dynamics of Gases for Combustion, Fluid Dynamics and Homeland Defense. , 2007, , .		1
175	Spectral Narrowing in Coherent Rayleigh Scattering. Physical Review Letters, 2007, 99, 133001.	2.9	16
176	Energy and momentum deposition from pulsed optical lattices to nonionized gases. Applied Physics Letters, 2007, 90, 121130.	1.5	10
177	Guiding radar signals by arrays of laser-induced filaments: finite-difference analysis. Applied Optics, 2007, 46, 5593.	2.1	51
178	Experiments on Microwave Scattering of REMPI in Argon, Xenon and Nitric Oxide. , 2007, , .		5
179	Coherent Microwave Rayleigh Scattering from Resonance-Enhanced Multiphoton Ionization in Argon. Physical Review Letters, 2007, 98, 265005.	2.9	79
180	Modeling of dielectric barrier discharge plasma actuators driven by repetitive nanosecond pulses. Physics of Plasmas, 2007, 14, 073501.	0.7	95

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181	Suppression of the turbulent decay of an afterspark channel with residual current. <i>Physics of Plasmas</i> , 2007, 14, .	0.7	20
182	Optimum Performance of Electron Beam Driven Magnetohydrodynamic Generators for Scramjet Inlet Control. <i>AIAA Journal</i> , 2007, 45, 2157-2163.	1.5	9
183	Separation of binary gas mixtures in a capillary with an optical lattice. <i>Laser Physics Letters</i> , 2007, 4, 519-523.	0.6	7
184	Molecular transport in pulsed optical lattices. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 89, 337-350.	1.1	21
185	Leader's streamers nature of blue jets. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007, 69, 925-938.	0.6	40
186	Turbulent decay of after-spark channels. <i>Physics of Plasmas</i> , 2006, 13, 073501.	0.7	49
187	Diagnostics by RADAR REMPI: Microwave Scattering from Laser-Induced Small-Volume Plasmas. , 2006, , .		1
188	Magnetohydrodynamic Power Generation Using Externally Ionized, Cold, Supersonic Air as Working Fluid. <i>AIAA Journal</i> , 2006, 44, 119-127.	1.5	37
189	Transport in room temperature gases induced by optical lattices. <i>Journal of Applied Physics</i> , 2006, 100, 074902.	1.1	13
190	Ionization in strong electric fields and dynamics of nanosecond-pulse plasmas. <i>Physics of Plasmas</i> , 2006, 13, 023502.	0.7	53
191	On the mechanism of blue jet formation and propagation. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	44
192	Controlling the motion of cold molecules with deep periodic optical potentials. <i>Nature Physics</i> , 2006, 2, 465-468.	6.5	171
193	Radar return enhanced by a grating of species-selective multiphoton ionization as a probe for trace impurities in the atmosphere. <i>Applied Physics B: Lasers and Optics</i> , 2006, 83, 149-153.	1.1	15
194	Narrow-band coherent Rayleigh scattering. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 655-662.	1.2	13
195	Optical Stark deceleration of nitric oxide and benzene molecules using optical lattices. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, S1097-S1109.	0.6	19
196	Micropropulsion devices based on molecular acceleration by pulsed optical lattices. <i>Journal of Applied Physics</i> , 2006, 99, 063102.	1.1	7
197	Microwave diagnostics of laser-induced avalanche ionization in air. <i>Journal of Applied Physics</i> , 2006, 100, 074912.	1.1	43
198	Modeling of Plasma Virtual Shape Control of Ram/Scramjet Inlet and Isolator. <i>Journal of Propulsion and Power</i> , 2006, 22, 447-454.	1.3	17

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199	Hypersonic Aerodynamic Control and Thrust Vectoring by Nonequilibrium Cold-Air Magneto hydrodynamic Devices. Journal of Propulsion and Power, 2006, 22, 490-497.	1.3	10
200	Steering Moments Creation in Supersonic Flow by Off-Axis Plasma Heat Addition. Journal of Spacecraft and Rockets, 2006, 43, 607-613.	1.3	34
201	Cold molecules in pulsed optical lattices. Progress in Quantum Electronics, 2005, 29, 1-58.	3.5	8
202	Drag and Total Power Reduction for Artificial Heat Input in Front of Hypersonic Blunt Bodies. AIP Conference Proceedings, 2005, , .	0.3	6
203	Experimental and Computational Investigation of Drag Reduction by Electric-Arc Airspikes at Mach 10. AIP Conference Proceedings, 2005, , .	0.3	4
204	Combined Experimental and Numerical Investigation of Electric-Arc Airspikes For Blunt Body at Mach 3. AIP Conference Proceedings, 2005, , .	0.3	7
205	The behavior of a vapor film on a highly superheated surface immersed in subcooled water. High Temperature, 2005, 43, 103-118.	0.1	2
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