

Xi-Cheng Zhang

List of Publications by Year in descending order

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504
papers

21,596
citations

11651

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11939

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512
all docs

512
docs citations

512
times ranked

9490
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress, challenges, and opportunities of terahertz emission from liquids. Journal of the Optical Society of America B: Optical Physics, 2022, 39, A43.	2.1	12
2	Water-Based Coherent Detection of Broadband Terahertz Pulses. Physical Review Letters, 2022, 128, 093902.	7.8	17
3	THz Spectroscopic Decomposition and Analysis in Mixture Inspection Using Soft Modeling Methods. Journal of Infrared, Millimeter, and Terahertz Waves, 2021, 42, 76-92.	2.2	1
4	Varying pre-plasma properties to boost terahertz wave generation in liquids. Communications Physics, 2021, 4, .	5.3	18
5	Transient evolution of quasifree electrons of plasma in liquid water revealed by optical-pump terahertz-probe spectroscopy. Advanced Photonics, 2021, 3, .	11.8	7
6	Broadband THz Sources from Gases to Liquids. Ultrafast Science, 2021, 2021, .	11.2	16
7	Compressive ultrafast pulse measurement via time-domain single-pixel imaging. Optica, 2021, 8, 1176.	9.3	10
8	Terahertz aqueous photonics. Frontiers of Optoelectronics, 2021, 14, 37-63.	3.7	5
9	(Cd,Mn)Te Crystals as Efficient Emitters and Detectors of Terahertz Transients. , 2021, , .		0
10	Sideway terahertz emission from a flowing water line. , 2021, , .		0
11	Molecular dynamic investigation of ethanol-water mixture by terahertz-induced Kerr effect. Optics Express, 2021, 29, 36379.	3.4	10
12	Broadband terahertz wave emission from liquid metal. Applied Physics Letters, 2020, 117, .	3.3	21
13	Ultrafast hydrogen bond dynamics of liquid water revealed by terahertz-induced transient birefringence. Light: Science and Applications, 2020, 9, 136.	16.6	45
14	Flowing cryogenic liquid target for terahertz wave generation. AIP Advances, 2020, 10, .	1.3	9
15	Ghost spintronic THz-emitter-array microscope. Light: Science and Applications, 2020, 9, 99.	16.6	82
16	Experimental measurement of the wake field in a plasma filament created by a single-color ultrafast laser pulse. Physical Review E, 2020, 102, 063211.	2.1	3
17	Preference of subpicosecond laser pulses for terahertz wave generation from liquids. Advanced Photonics, 2020, 2, 1.	11.8	24
18	Terahertz nonlinear index extraction via full-phase analysis. Optics Letters, 2020, 45, 5628.	3.3	7

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19	Spectral Fresnel filter for pulsed broadband terahertz radiation. AIP Advances, 2020, 10, .	1.3	6
20	Spatial sampling of terahertz fields with subwavelength accuracy via probe beam encoding. , 2020, , .		0
21	Terahertz wave emission from liquid gallium. , 2020, , .		0
22	10.1063/5.0023106.1. , 2020, , .		0
23	Terahertz Wave Generation from Water at Different Temperatures. , 2020, , .		0
24	THz Nonlinear Dielectrics. , 2020, , .		0
25	Broadband THz Wave Generation from Flowing Liquid Nitrogen. , 2020, , .		1
26	Terahertz Wave Emission from Liquid Metal. , 2020, , .		0
27	Strong Terahertz Radiation from a Liquid-Water Line. Physical Review Applied, 2019, 12, .	3.8	57
28	Enhancement of terahertz emission by a preformed plasma in liquid water. Applied Physics Letters, 2019, 115, .	3.3	19
29	Terahertz wave generation from ring-Airy beam induced plasmas and remote detection by terahertz-radiationenhanced- emission-of-fluorescence: a review. Frontiers of Optoelectronics, 2019, 12, 117-147.	3.7	4
30	Spatial sampling of terahertz fields with sub-wavelength accuracy via probe-beam encoding. Light: Science and Applications, 2019, 8, 55.	16.6	51
31	Terahertz Aqueous Photonics and Beyond. , 2019, , .		0
32	High cubic nonlinearity of liquids in the broadband THz spectral range. , 2019, , .		0
33	Double pulse excitation for enhancing THz generation in liquid jets. , 2019, , .		0
34	High Kerr nonlinearity of water in THz spectral range. Optics Express, 2019, 27, 10419.	3.4	41
35	Flat liquid jet as a highly efficient source of terahertz radiation. Optics Express, 2019, 27, 15485.	3.4	42
36	Double-pump technique “one step closer towards efficient liquid-based THz sources. Optics Express, 2019, 27, 32855.	3.4	18

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37	Direct Nonlinear Refractive Index Coefficient Measurement of Water in THz Frequency Range. , 2019, , .		0
38	Terahertz Photonics in Liquids. , 2019, , .		0
39	Investigation of liquid properties on emitting terahertz wave under ultrashort optical excitation. , 2019, , .		1
40	Comparison of various liquids as sources of terahertz radiation from one-color laser filament. , 2019, , .		1
41	Wireless Data Transmission Method Using Pulsed THz Sliced Spectral Supercontinuum. IEEE Photonics Technology Letters, 2018, 30, 103-106.	2.5	16
42	Experimental Estimate of the Nonlinear Refractive Index of Crystalline ZnSe in the Terahertz Spectral Range. Bulletin of the Russian Academy of Sciences: Physics, 2018, 82, 1547-1549.	0.6	9
43	Excitation-Wavelength Dependent Terahertz Wave Polarization Control in Laser-Induced Filament. , 2018, , .		0
44	THz Aqueous Photonics and Beyond. , 2018, , .		1
45	Terahertz wave emission from a liquid water film under the excitation of asymmetric optical fields. Applied Physics Letters, 2018, 113, .	3.3	35
46	Terahertz wave generation from liquid water films via laser-induced breakdown. Applied Physics Letters, 2018, 113, .	3.3	54
47	Recent Development on THz Aqueous Photonics. , 2018, , .		0
48	Broadband Terahertz Sources. , 2018, , 403-417.		0
49	Generation and detection of pulsed terahertz waves in gas: from elongated plasmas to microplasmas. Frontiers of Optoelectronics, 2018, 11, 209-244.	3.7	8
50	Investigation of terahertz generation in water jet in dependence on parameters of excitation pulse. , 2018, , .		0
51	Terahertz photonics of microplasma and beyond. Lithuanian Journal of Physics, 2018, 58, .	0.4	7
52	Terahertz Wave Generation from Water. , 2018, , .		0
53	Using liquid water as broadband terahertz wave emitter. , 2018, , .		0
54	Concentration dependence of terahertz generation in jets of water and ethanol mixtures. , 2018, , .		2

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55	Squeezing the fundamental temperature fluctuations of a high-Q microresonator. Physical Review A, 2017, 95, .	3.5	15
56	Observation of broadband terahertz wave generation from liquid water. Applied Physics Letters, 2017, 111, .	3.3	117
57	Terahertz radiation enhanced emission of fluorescence from elongated plasmas and microplasmas in the counter-propagating geometry. Applied Physics Letters, 2017, 111, .	3.3	5
58	Impact of the dipole contribution on the terahertz emission of air-based plasma induced by tightly focused femtosecond laser pulses. Physical Review E, 2017, 95, 043209.	2.1	32
59	Toward Standoff Sensing of CBRN with THz Waves. NATO Science for Peace and Security Series B: Physics and Biophysics, 2017, , 3-10.	0.3	2
60	Observation of Terahertz Radiation via the Two-Color Laser Scheme with Uncommon Frequency Ratios. Physical Review Letters, 2017, 119, 235001.	7.8	82
61	Observation of broadband terahertz wave generation from liquid water. , 2017, , .		1
62	Terahertz emission from thin metal films with porous nanostructures. , 2017, , .		0
63	Impact of the dipole and quadrupole contributions into the THz emission of air-based plasma in the mode of micro-focusing. , 2017, , .		0
64	Nonlinear optical oscillation dynamics in high-Q lithium niobate microresonators. Optics Express, 2017, 25, 13504.	3.4	50
65	Excitation-wavelength dependent terahertz wave polarization control in laser-induced filament. Optics Express, 2017, 25, 32346.	3.4	9
66	Last Piece of Puzzle: THz Wave Emission from Liquid Water. , 2017, , .		0
67	The nonlinearity of the refractive index of optical media in the terahertz spectral range. EPJ Web of Conferences, 2017, 149, 05005.	0.3	1
68	Automatic spectrum recognition by real-time terahertz spectrometer. , 2017, , .		0
69	Comparison and enlightenment of optical higher education between America and China. , 2017, , .		0
70	THz sliced broadband continuum for wireless data transfer with CdSe-CdS modulator. , 2016, , .		1
71	Enhanced THz-to-IR emission from gas-surrounded metallic nanostructures by femtosecond laser irradiation. , 2016, , .		0
72	Evolution of few-cycle pulses in nonlinear dispersive media: Velocity of the center of mass and root-mean-square duration. Physical Review A, 2016, 94, .	2.5	12

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73	Enhanced THz-to-IR emission from gas-surrounded metallic nanostructures by femtosecond laser irradiation. Optics Communications, 2016, 381, 414-417.	2.1	1
74	Amplification of resonant field enhancement by plasmonic lattice coupling in metallic slit arrays. Scientific Reports, 2016, 6, 37738.	3.3	13
75	Enhanced terahertz wave emission from air-plasma tailored by abruptly autofocusing laser beams. Optica, 2016, 3, 605.	9.3	64
76	Heat kernels and analyticity of non-symmetric jump diffusion semigroups. Probability Theory and Related Fields, 2016, 165, 267-312.	1.8	61
77	Study on THz-Radiation-Enhanced Emission of Fluorescence from plasma in a counter-propagating geometry. , 2016, , .		6
78	Enhancing THz radiation from two-color laser-induced air-plasma by using abruptly autofocusing beams. , 2016, , .		0
79	Influence of Iliac Vein Stent Implantation on the Contralateral Iliac Vein. Vascular and Endovascular Surgery, 2015, 49, 119-123.	0.7	8
80	High-power THz to IR emission by femtosecond laser irradiation of random 2D metallic nanostructures. Scientific Reports, 2015, 5, 12536.	3.3	15
81	Regularity of density for SDEs driven by degenerate Lévy noises. Electronic Journal of Probability, 2015, 20, .	1.0	13
82	Terahertz emission from thin metal films with porous nanostructures. Applied Physics Letters, 2015, 107, .	3.3	5
83	Generation of terahertz radiation in thin vanadium dioxide films undergoing metal-insulator phase transition. , 2015, , .		1
84	Data transfer by spectral encoding method with high-power pulsed terahertz source. , 2015, , .		1
85	Intense THz to IR emission from random 2D metallic nanostructures. , 2015, , .		0
86	Harnack Inequalities for SDEs Driven by Cylindrical $\hat{\pm}$ -Stable Processes. Potential Analysis, 2015, 42, 657-669.	0.9	17
87	Transmission imaging measurements at 188 GHz with 0.35 $\hat{\mu}$ m CMOS technology. Proceedings of SPIE, 2015, , .	0.8	0
88	Large deviation principle for stochastic heat equation with memory. Discrete and Continuous Dynamical Systems, 2015, 35, 5221-5237.	0.9	6
89	Terahertz emission from laser-induced microplasma in ambient air. Optica, 2015, 2, 366.	9.3	59
90	Emission of terahertz pulses from vanadium dioxide films undergoing metal-insulator phase transition. Optica, 2015, 2, 790.	9.3	22

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91	Bi-directional terahertz-to-infrared emission from metal-coated nanostructures upon femtosecond laser irradiation. Optics Express, 2015, 23, 25202.	3.4	1
92	Redesign of article pages for Optics Letters: editorial. Optics Letters, 2015, 40, ED1.	3.3	1
93	Intense thermal terahertz-to-infrared emission from random metallic nanostructures under femtosecond laser irradiation. Optics Express, 2015, 23, 14211.	3.4	7
94	Terahertz-to-infrared emission through laser excitation of surface plasmons in metal films with porous nanostructures. Optics Express, 2015, 23, 17185.	3.4	4
95	Terahertz wave emission from dual color laser-induced microplasma. , 2015, , .		0
96	Study of THz emission from ring-Airy beam induced plasma. , 2015, , .		2
97	Derivative formulae for SDEs driven by multiplicative $\hat{\pm}$ -stable-like processes. Stochastic Processes and Their Applications, 2015, 125, 867-885.	0.9	13
98	Data Spectral Encoding Method with Pulsed Terahertz Sources. , 2015, , .		0
99	Application of endovascular stent placement as a remedy for spontaneous isolated superior mesenteric artery dissection. Vascular, 2014, 22, 350-355.	0.9	8
100	THz wave generation from cesium vapor. , 2014, , .		0
101	Measurement of birefringence inside an air plasma by THz-ABCD. , 2014, , .		0
102	Generation of single-cycle THz radiation in thin VO ₂ films undergoing metal-insulator phase transition. , 2014, , .		0
103	The role of filamentation in THz wave air photonics. , 2014, , .		0
104	Terahertz radiation in alkali vapor plasmas. Applied Physics Letters, 2014, 104, 191106.	3.3	21
105	Terahertz wave generation from thin metal films excited by asymmetrical optical fields. Optics Letters, 2014, 39, 777.	3.3	29
106	Broadband terahertz wave emission from thin metal films excited by two-color laser fields. , 2014, , .		0
107	THz wave generation from micro-plasma. , 2014, , .		0
108	Terahertz wave emission from laser-induced micro-plasma. , 2014, , .		0

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109	Broadband THz wave science and technology. , 2014, , .		0
110	Heat kernel estimates for critical fractional diffusion operators. <i>Studia Mathematica</i> , 2014, 224, 221-263.	0.7	22
111	THz imaging Si MOSFET system design at 215 GHz. , 2014, , .		0
112	Anti-reflection implementations for terahertz waves. <i>Frontiers of Optoelectronics</i> , 2014, 7, 243-262.	3.7	17
113	Exponential Ergodicity of Stochastic Burgers Equations Driven by $\hat{1}\pm$ -Stable Processes. <i>Journal of Statistical Physics</i> , 2014, 154, 929-949.	1.2	30
114	Investigation of ultra-broadband terahertz time-domain spectroscopy with terahertz wave gas photonics. <i>Frontiers of Optoelectronics</i> , 2014, 7, 121-155.	3.7	32
115	Probabilistic approach for semi-linear stochastic fractal equations. <i>Stochastic Processes and Their Applications</i> , 2014, 124, 3948-3964.	0.9	2
116	Terahertz radiation-enhanced-emission-of-fluorescence. <i>Frontiers of Optoelectronics</i> , 2014, 7, 156-198.	3.7	11
117	Toward remote sensing with broadband terahertz waves. <i>Frontiers of Optoelectronics</i> , 2014, 7, 199-219.	3.7	8
118	Application of broadband terahertz spectroscopy in semiconductor nonlinear dynamics. <i>Frontiers of Optoelectronics</i> , 2014, 7, 220-242.	3.7	21
119	Preface to the special issue on Terahertz Wave Science, Technology, and Application. <i>Frontiers of Optoelectronics</i> , 2014, 7, 119-120.	3.7	1
120	Quasi-Sure Convergence Rate of Euler Scheme for Stochastic Differential Equations. <i>Acta Mathematica Scientia</i> , 2014, 34, 65-72.	1.0	1
121	Densities for SDEs driven by degenerate α -stable processes. <i>Annals of Probability</i> , 2014, 42, .	1.8	23
122	(L^p) -maximal regularity of nonlocal parabolic equations and applications. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2013, 30, 573-614.	1.4	34
123	The influence of period between U-shaped resonators on metasurface response at terahertz frequency range. <i>Proceedings of SPIE</i> , 2013, , .	0.8	7
124	Derivative formula and applications for degenerate diffusion semigroups. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2013, 99, 726-740.	1.6	25
125	Terahertz time-domain and FTIR spectroscopic study of interaction of $\hat{1}\pm$ -chymotrypsin and protonated tris with 18-crown-6. <i>Chemical Physics Letters</i> , 2013, 560, 55-59.	2.6	12
126	Derivative formulas and gradient estimates for SDEs driven by $\hat{1}\pm$ -stable processes. <i>Stochastic Processes and Their Applications</i> , 2013, 123, 1213-1228.	0.9	61

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127	Well-posedness of fully nonlinear and nonlocal critical parabolic equations. Journal of Evolution Equations, 2013, 13, 135-162.	1.1	0
128	Nonlinear THz Pump/THz Probe Spectroscopy of n-doped III-V Semiconductors. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 8401005-8401005.	2.9	3
129	Compact THz imaging detector. , 2013, , .		0
130	Stochastic Monge-Kantorovich problem and its duality. Stochastics, 2013, 85, 71-84.	1.1	9
131	BROADBAND TERAHERTZ WAVE GENERATION, DETECTION AND COHERENT CONTROL USING TERAHERTZ GAS PHOTONICS. , 2013, , .		0
132	Femtosecond coherent control of THz spectra driven by free- and coupled electrons in gas plasma. , 2013, , .		0
133	Transformation of terahertz spectra emitted from dual-frequency femtosecond pulse interaction in gases. Optics Letters, 2013, 38, 1906.	3.3	84
134	Stochastic differential equations with Sobolev drifts and driven by α -stable processes. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2013, 49, .	1.1	34
135	Femtosecond coherent control of THz spectra driven by free- and coupled electrons in gas plasma. , 2013, , .		0
136	Laser and Photonic Systems Integration: Emerging Innovations and Framework for Research and Education. Human Factors and Ergonomics in Manufacturing, 2013, 23, 483-516.	2.7	7
137	Polarization dependent study of THz ABCD. , 2013, , .		0
138	Emergence of very broad infrared absorption band by hyperdoping of silicon with chalcogens. Journal of Applied Physics, 2013, 113, .	2.5	70
139	Degenerate irregular SDEs with jumps and application to integro-differential equations of Fokker-Planck type. Electronic Journal of Probability, 2013, 18, .	1.0	5
140	Well-posedness and large deviation for degenerate SDEs with Sobolev coefficients. Revista Matematica Iberoamericana, 2013, 29, 25-52.	0.9	27
141	Broadband THz detection in the counter-propagating configuration using THz-enhanced plasma fluorescence. , 2013, , .		0
142	Stochastic functional differential equations driven by Lévy processes and quasi-linear partial integro-differential equations. Annals of Applied Probability, 2012, 22, .	1.3	14
143	Recent development of THz wave generation, detection and applications. , 2012, , .		0
144	Terahertz field enhancement to the MV/cm regime in a tapered parallel plate waveguide. Optics Express, 2012, 20, 8344.	3.4	48

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145	Generation of Elliptically Polarized Terahertz Waves from Laser-Induced Plasma with Double Helix Electrodes. <i>Physical Review Letters</i> , 2012, 108, 123903.	7.8	57
146	Modulation of electron trajectories inside a filament for single-scan coherent terahertz wave detection. <i>Applied Physics Letters</i> , 2012, 100, 121105.	3.3	2
147	Analysis of Gouy phase shift for optimizing terahertz air-biased-coherent-detection. <i>Applied Physics Letters</i> , 2012, 100, 061105.	3.3	17
148	Chemical Identification With Information-Weighted Terahertz Spectrometry. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2012, 2, 107-112.	3.1	9
149	Terahertz time-domain and FTIR spectroscopy of tris-crown interaction. <i>Chemical Physics Letters</i> , 2012, 554, 201-207.	2.6	5
150	Terahertz time-domain and FTIR spectroscopy of tris and its complexes with crown ether. , 2012, , .		1
151	Transformation of THz spectra emitted from dual-frequency femtosecond pulse interaction in gases. , 2012, , .		0
152	Review of THz wave air photonics. , 2012, , .		2
153	Method of generating elliptically polarized terahertz waves from laser-induced plasma with double helix electrodes. , 2012, , .		0
154	Laser air photonics: beyond the terahertz gap. <i>Materials Today</i> , 2012, 15, 50-58.	14.2	88
155	Probabilistic approach for systems of second order quasi-linear parabolic PDEs. <i>Journal of Mathematical Analysis and Applications</i> , 2012, 388, 676-694.	1.0	1
156	Stochastic Lagrangian Particle Approach to Fractal Navier-Stokes Equations. <i>Communications in Mathematical Physics</i> , 2012, 311, 133-155.	2.2	26
157	Standoff terahertz wave generation from two-color laser-induced plasma at 30 meters in ambient air. , 2011, , .		1
158	Limit Theorems for Stochastic Differential Equations with Discontinuous Coefficients. <i>SIAM Journal on Mathematical Analysis</i> , 2011, 43, 302-321.	1.9	9
159	Non-invasive method of field imaging in parallel plate waveguides. , 2011, , .		0
160	Progress toward handheld THz sensing. , 2011, , .		4
161	Recent progress of THz generation and detection in ambient air or gases. , 2011, , .		0
162	Encoding terahertz signatures into laser-induced plasma acoustic waves. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1

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163	Terahertz response of field-effect transistors in saturation regime. Applied Physics Letters, 2011, 98, 243505.	3.3	41
164	Ultrafast broadband terahertz waveform measurement utilizing ultraviolet plasma photoemission. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 796.	2.1	5
165	“All air” plasma terahertz spectroscopy. Optics Letters, 2011, 36, 2399.	3.3	37
166	Self-referenced method for terahertz wave time-domain spectroscopy. Optics Letters, 2011, 36, 3308.	3.3	13
167	Recent Progresses in Terahertz Wave Air Photonics. IEEE Transactions on Terahertz Science and Technology, 2011, 1, 274-281.	3.1	52
168	Transmission Coefficient Enhancement in Undoped Indium Arsenide by High THz Field. , 2011, , .		1
169	Terahertz Wave Imaging System Based on Glow Discharge Detector. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 177-182.	2.9	54
170	Enhancement of Laser-Induced Fluorescence by Intense Terahertz Pulses in Gases. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 229-236.	2.9	9
171	Terahertz Wave Air Photonics: Terahertz Wave Generation and Detection With Laser-Induced Gas Plasma. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 183-190.	2.9	143
172	Terahertz Wave Gas Photonics: Sensing with Gases. Journal of Infrared, Millimeter, and Terahertz Waves, 2011, 32, 562-569.	2.2	6
173	Stochastic partial differential equations with unbounded and degenerate coefficients. Journal of Differential Equations, 2011, 250, 1924-1966.	2.2	8
174	Quasi-invariant stochastic flows of SDEs with non-smooth drifts on compact manifolds. Stochastic Processes and Their Applications, 2011, 121, 1373-1388.	0.9	5
175	Non-invasive terahertz field imaging inside parallel plate waveguides. Applied Physics Letters, 2011, 99, .	3.3	14
176	Balanced terahertz wave air-biased-coherent-detection. Applied Physics Letters, 2011, 98, .	3.3	40
177	Driving intervalley scattering and impact ionization in InAs with intense terahertz pulses. Applied Physics Letters, 2011, 98, .	3.3	42
178	BROADBAND TERAHERTZ WAVE GENERATION, DETECTION AND COHERENT CONTROL USING TERAHERTZ GAS PHOTONICS. International Journal of High Speed Electronics and Systems, 2011, 20, 3-12.	0.7	7
179	Air Photonics: Tera “ Mid Infrared Radiation. NATO Science for Peace and Security Series B: Physics and Biophysics, 2011, , 195-202.	0.3	1
180	Science, technology, and application of THz air photonics. Proceedings of SPIE, 2010, , .	0.8	1

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181	Design and performance of reflective ultra-broadband terahertz time-domain spectroscopy with air-biased-coherent-detection. , 2010, , .		1
182	Large Deviations for Stochastic Tamed 3D Navier-Stokes Equations. Applied Mathematics and Optimization, 2010, 61, 267-285.	1.6	58
183	A stochastic representation for backward incompressible Navier-Stokes equations. Probability Theory and Related Fields, 2010, 148, 305-332.	1.8	14
184	Smooth solutions of non-linear stochastic partial differential equations driven by multiplicative noises. Science China Mathematics, 2010, 53, 2949-2972.	1.7	6
185	Large Deviations for Multivalued Stochastic Differential Equations. Journal of Theoretical Probability, 2010, 23, 1142-1156.	0.8	23
186	Enhanced Plasma Wave Detection of Terahertz Radiation Using Multiple High Electron-Mobility Transistors Connected in Series. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 331-339.	4.6	47
187	Stochastic Volterra equations in Banach spaces and stochastic partial differential equation. Journal of Functional Analysis, 2010, 258, 1361-1425.	1.4	71
188	Stochastic flows and Bismut formulas for stochastic Hamiltonian systems. Stochastic Processes and Their Applications, 2010, 120, 1929-1949.	0.9	42
189	Exponential ergodicity of non-Lipschitz multivalued stochastic differential equations. Bulletin Des Sciences Mathematiques, 2010, 134, 391-404.	1.0	27
190	Stochastic flows of SDEs with irregular coefficients and stochastic transport equations. Bulletin Des Sciences Mathematiques, 2010, 134, 340-378.	1.0	47
191	Weak uniqueness of Fokker-Planck equations with degenerate and bounded coefficients. Comptes Rendus Mathematique, 2010, 348, 435-438.	0.3	26
192	Broadband terahertz wave remote sensing using coherent manipulation of fluorescence from asymmetrically ionized gases. Nature Photonics, 2010, 4, 627-631.	31.4	329
193	THz air photonics for standoff detection. , 2010, , .		1
194	Photoluminescence quenching dynamics in cadmium telluride and gallium arsenide induced by ultrashort terahertz pulse. Applied Physics Letters, 2010, 97, 111103.	3.3	13
195	Progress toward handheld THz spectroscopy and THz Air Photonics. , 2010, , .		1
196	Guest Editorial-“Terahertz Technology: Bridging the Microwave-to-Photonics Gap. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 1901-1902.	4.6	4
197	Enhancement of photoacoustic emission through terahertz-field-driven electron motions. Physical Review E, 2010, 82, 066602.	2.1	11
198	Design and performance of reflective terahertz air-biased-coherent-detection for time-domain spectroscopy. Optics Express, 2010, 18, 2872.	3.4	91

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199	Three-dimensional inverted photonic grating with engineerable refractive indices for broadband antireflection of terahertz waves. <i>Optics Letters</i> , 2010, 35, 3159.	3.3	8
200	Laser-induced photoacoustics influenced by single-cycle terahertz radiation. <i>Optics Letters</i> , 2010, 35, 3544.	3.3	31
201	Intrinsic chirp of single-cycle pulses. <i>Physical Review A</i> , 2010, 81, .	2.5	24
202	Application of Silicon Micropyramid Structures for Antireflection of Terahertz Waves. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 338-343.	2.9	9
203	Introduction to THz Wave Photonics. , 2010, , .		368
204	Plasma characterization using terahertz-wave-enhanced fluorescence. <i>Applied Physics Letters</i> , 2010, 96, 041505.	3.3	21
205	Terahertz Radiation. , 2010, , 1-26.		6
206	Generation and Detection of THz Waves. , 2010, , 27-48.		10
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