

Xi-Cheng Zhang

List of Publications by Year in descending order

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504
papers

21,596
citations

11651

70
h-index

11939

134
g-index

512
all docs

512
docs citations

512
times ranked

9490
citing authors

#	ARTICLE	IF	CITATIONS
1	Materials for terahertz science and technology. <i>Nature Materials</i> , 2002, 1, 26-33.	27.5	2,759
2	Coherent Control of THz Wave Generation in Ambient Air. <i>Physical Review Letters</i> , 2006, 96, 075005.	7.8	583
3	Terahertz Spectroscopy and Imaging for Defense and Security Applications. <i>Proceedings of the IEEE</i> , 2007, 95, 1514-1527.	21.3	481
4	Ultrafast optical switching properties of single-wall carbon nanotube polymer composites at 1.55 μm . <i>Applied Physics Letters</i> , 2002, 81, 975-977.	3.3	425
5	Detection of Broadband Terahertz Waves with a Laser-Induced Plasma in Gases. <i>Physical Review Letters</i> , 2006, 97, 103903.	7.8	392
6	Free-space electro-optics sampling of mid-infrared pulses. <i>Applied Physics Letters</i> , 1997, 71, 1285-1286.	3.3	381
7	Introduction to THz Wave Photonics. , 2010, , .		368
8	Broadband terahertz wave remote sensing using coherent manipulation of fluorescence from asymmetrically ionized gases. <i>Nature Photonics</i> , 2010, 4, 627-631.	31.4	329
9	T-ray computed tomography. <i>Optics Letters</i> , 2002, 27, 1312.	3.3	323
10	Coherent Polarization Control of Terahertz Waves Generated from Two-Color Laser-Induced Gas Plasma. <i>Physical Review Letters</i> , 2009, 103, 023001.	7.8	307
11	7 terahertz broadband GaP electro-optic sensor. <i>Applied Physics Letters</i> , 1997, 70, 1784-1786.	3.3	304
12	Coherent heterodyne time-domain spectrometry covering the entire "terahertz gap". <i>Applied Physics Letters</i> , 2008, 92, .	3.3	301
13	Study of terahertz radiation from InAs and InSb. <i>Journal of Applied Physics</i> , 2002, 91, 5533-5537.	2.5	297
14	Detection and identification of explosive RDX by THz diffuse reflection spectroscopy. <i>Optics Express</i> , 2006, 14, 415.	3.4	292
15	Absorption coefficients of selected explosives and related compounds in the range of 0.1-2.8 THz. <i>Optics Express</i> , 2007, 15, 12060.	3.4	288
16	Terahertz wave imaging: horizons and hurdles. <i>Physics in Medicine and Biology</i> , 2002, 47, 3667-3677.	3.0	272
17	Near-field terahertz imaging with a dynamic aperture. <i>Optics Letters</i> , 2000, 25, 1122.	3.3	265
18	Compact continuous-wave subterahertz system for inspection applications. <i>Applied Physics Letters</i> , 2005, 86, 054105.	3.3	264

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19	A direct comparison between terahertz time-domain spectroscopy and far-infrared Fourier transform spectroscopy. <i>Journal of Applied Physics</i> , 2001, 89, 2357-2359.	2.5	246
20	Identification and classification of chemicals using terahertz reflective spectroscopic focal-plane imaging system. <i>Optics Express</i> , 2006, 14, 9130.	3.4	239
21	Time-domain transillumination of biological tissues with terahertz pulses. <i>Optics Letters</i> , 2000, 25, 242.	3.3	225
22	Saturation properties of large-aperture photoconducting antennas. <i>IEEE Journal of Quantum Electronics</i> , 1992, 28, 1607-1616.	1.9	222
23	Electro-optic measurement of THz field pulses with a chirped optical beam. <i>Applied Physics Letters</i> , 1998, 72, 1945-1947.	3.3	217
24	Pulsed terahertz tomography. <i>Journal Physics D: Applied Physics</i> , 2004, 37, R1-R36.	2.8	216
25	The impact of hydration changes in fresh bio-tissue on THz spectroscopic measurements. <i>Physics in Medicine and Biology</i> , 2008, 53, 3501-3517.	3.0	207
26	Comparison between pulsed terahertz time-domain imaging and continuous wave terahertz imaging. <i>Semiconductor Science and Technology</i> , 2005, 20, S293-S299.	2.0	201
27	Electro-optic transceivers for terahertz-wave applications. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2001, 18, 823.	2.1	182
28	Terahertz radiation from InAs induced by carrier diffusion and drift. <i>Physical Review B</i> , 2006, 73, .	3.2	158
29	Single-shot spatiotemporal terahertz field imaging. <i>Optics Letters</i> , 1998, 23, 1114.	3.3	157
30	Distortion of terahertz pulses in electro-optic sampling. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1998, 15, 1795.	2.1	157
31	Terahertz imaging via electrooptic effect. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1999, 47, 2644-2650.	4.6	157
32	Use of the organic crystal DAST for terahertz beam applications. <i>Optics Letters</i> , 2000, 25, 675.	3.3	156
33	Terahertz Wave Air Photonics: Terahertz Wave Generation and Detection With Laser-Induced Gas Plasma. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011, 17, 183-190.	2.9	143
34	Terahertz emission profile from laser-induced air plasma. <i>Applied Physics Letters</i> , 2006, 88, 261103.	3.3	142
35	Free-space coherent broadband terahertz time-domain spectroscopy. <i>Measurement Science and Technology</i> , 2001, 12, 1747-1756.	2.6	139
36	GaSe crystals for broadband terahertz wave detection. <i>Applied Physics Letters</i> , 2004, 85, 863-865.	3.3	136

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37	Coherent Terahertz Echo of Tunnel Ionization in Gases. <i>Physical Review Letters</i> , 2009, 102, 093001.	7.8	135
38	Dielectric constant measurement of thin films by differential time-domain spectroscopy. <i>Applied Physics Letters</i> , 2000, 76, 3221-3223.	3.3	134
39	Label-free bioaffinity detection using terahertz technology. <i>Physics in Medicine and Biology</i> , 2002, 47, 3789-3795.	3.0	131
40	Detection of terahertz radiation with low-temperature-grown GaAs-based photoconductive antenna using 1.55 μm probe. <i>Applied Physics Letters</i> , 2000, 77, 1396-1398.	3.3	130
41	Nondestructive defect identification with terahertz time-of-flight tomography. <i>IEEE Sensors Journal</i> , 2005, 5, 203-208.	4.7	130
42	Improvement of terahertz imaging with a dynamic subtraction technique. <i>Applied Optics</i> , 2000, 39, 2982.	2.1	126
43	THz spectroscopic investigation of 2,4-dinitrotoluene. <i>Chemical Physics Letters</i> , 2004, 400, 357-361.	2.6	126
44	Observation of broadband terahertz wave generation from liquid water. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	117
45	Resonant nonlinear susceptibility near the GaAs band gap. <i>Physical Review Letters</i> , 1992, 69, 2303-2306.	7.8	116
46	Design and characterization of traveling-wave electrooptic terahertz sensors. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1996, 2, 693-700.	2.9	116
47	Terahertz Science and Technology Trends. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008, 14, 260-269.	2.9	116
48	Electro-optic sampling near zero optical transmission point. <i>Applied Physics Letters</i> , 1999, 74, 1191-1193.	3.3	111
49	Coherent, broadband midinfrared terahertz beam sensors. <i>Applied Physics Letters</i> , 1998, 73, 3049-3051.	3.3	110
50	T-Ray Sensing and Imaging. <i>International Journal of High Speed Electronics and Systems</i> , 2003, 13, 601-676.	0.7	110
51	Subpicosecond electromagnetic pulses from large-aperture photoconducting antennas. <i>Optics Letters</i> , 1990, 15, 323.	3.3	107
52	Special Issue on T-Ray Imaging, Sensing, and Retection. <i>Proceedings of the IEEE</i> , 2007, 95, 1509-1513.	21.3	107
53	Sensing minute changes in biological cell monolayers with THz differential time-domain spectroscopy. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1075-1080.	10.1	105
54	Terahertz radiation induced by subband-gap femtosecond optical excitation of GaAs. <i>Physical Review Letters</i> , 1991, 67, 2709-2712.	7.8	102

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55	T-ray Imaging and Tomography. Journal of Biological Physics, 2003, 29, 247-256.	1.5	102
56	Free-space electro-optic sampling with a high-repetition-rate regenerative amplified laser. Applied Physics Letters, 1997, 71, 593-595.	3.3	94
57	Dehydration kinetics of D-glucose monohydrate studied using THz time-domain spectroscopy. Chemical Physics Letters, 2006, 429, 229-233.	2.6	93
58	Design and performance of reflective terahertz air-biased-coherent-detection for time-domain spectroscopy. Optics Express, 2010, 18, 2872.	3.4	91
59	Laser air photonics: beyond the terahertz gap. Materials Today, 2012, 15, 50-58.	14.2	88
60	Characterization of Anhydrous and Hydrated Pharmaceutical Materials with THz Time-Domain Spectroscopy. Journal of Pharmaceutical Sciences, 2007, 96, 927-934.	3.3	86
61	Terahertz-Radiation-Enhanced Emission of Fluorescence from Gas Plasma. Physical Review Letters, 2009, 103, 235002.	7.8	85
62	Transformation of terahertz spectra emitted from dual-frequency femtosecond pulse interaction in gases. Optics Letters, 2013, 38, 1906.	3.3	84
63	Analysis of system trade-offs for terahertz imaging. Microelectronics Journal, 2000, 31, 503-514.	2.0	82
64	Observation of Terahertz Radiation via the Two-Color Laser Scheme with Uncommon Frequency Ratios. Physical Review Letters, 2017, 119, 235001.	7.8	82
65	Ghost spintronic THz-emitter-array microscope. Light: Science and Applications, 2020, 9, 99.	16.6	82
66	Analysis of terahertz pulse measurement with a chirped probe beam. Applied Physics Letters, 1998, 73, 2233-2235.	3.3	80
67	Terahertz time-domain spectroscopy studies of the optical constants of the nematic liquid crystal 5CB. Applied Optics, 2003, 42, 2372.	2.1	79
68	Plasma wave resonant detection of femtosecond pulsed terahertz radiation by a nanometer field-effect transistor. Applied Physics Letters, 2005, 87, 022102.	3.3	78
69	Direct Observation of a Transition of a Surface Plasmon Resonance from a Photonic Crystal Effect. Physical Review Letters, 2007, 98, 183901.	7.8	77
70	Euler schemes and large deviations for stochastic Volterra equations with singular kernels. Journal of Differential Equations, 2008, 244, 2226-2250.	2.2	77
71	2D measurement and spatio-temporal coupling of few-cycle THz pulses. Optics Express, 1999, 5, 243.	3.4	75
72	Terahertz pulse generation from noble gases. Applied Physics Letters, 2007, 91, .	3.3	75

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73	THz wave sensing for petroleum industrial applications. Journal of Infrared, Millimeter and Terahertz Waves, 2007, 27, 481-503.	0.6	73
74	Strong solutions of SDES with singular drift and Sobolev diffusion coefficients. Stochastic Processes and Their Applications, 2005, 115, 1805-1818.	0.9	72
75	Stochastic Volterra equations in Banach spaces and stochastic partial differential equation. Journal of Functional Analysis, 2010, 258, 1361-1425.	1.4	71
76	Identification of biological tissue using chirped probe THz imaging. Microelectronics Journal, 2002, 33, 1043-1051.	2.0	70
77	Emergence of very broad infrared absorption band by hyperdoping of silicon with chalcogens. Journal of Applied Physics, 2013, 113, .	2.5	70
78	Polarization modulation in optoelectronic generation and detection of terahertz beams. Applied Physics Letters, 1999, 74, 3435-3437.	3.3	67
79	Millimeter wave emission from GaN high electron mobility transistor. Applied Physics Letters, 2004, 84, 70-72.	3.3	67
80	Label-free amplified bioaffinity detection using terahertz wave technology. Biosensors and Bioelectronics, 2004, 20, 658-662.	10.1	67
81	Terahertz radiation from a photoconducting antenna array. IEEE Journal of Quantum Electronics, 1992, 28, 2291-2301.	1.9	65
82	Electrically controlled room temperature terahertz phase shifter with liquid crystal. IEEE Microwave and Wireless Components Letters, 2004, 14, 77-79.	3.2	65
83	Terahertz wave generation from gas plasma using a phase compensator with attosecond phase-control accuracy. Applied Physics Letters, 2009, 94, 021117.	3.3	65
84	Enhanced terahertz wave emission from air-plasma tailored by abruptly autofocusing laser beams. Optica, 2016, 3, 605.	9.3	64
85	Circular involute stage. Optics Letters, 2004, 29, 2082.	3.3	61
86	Derivative formulas and gradient estimates for SDEs driven by $\hat{\alpha}$ -stable processes. Stochastic Processes and Their Applications, 2013, 123, 1213-1228.	0.9	61
87	Heat kernels and analyticity of non-symmetric jump diffusion semigroups. Probability Theory and Related Fields, 2016, 165, 267-312.	1.8	61
88	Terahertz Biosensing Technology: Frontiers and Progress. ChemPhysChem, 2002, 3, 655.	2.1	60
89	Terahertz gas photonics. Journal of Modern Optics, 2009, 56, 1137-1150.	1.3	60
90	Tunable broadband antireflection structures for silicon at terahertz frequency. Applied Physics Letters, 2009, 94, .	3.3	59

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91	Terahertz emission from laser-induced microplasma in ambient air. <i>Optica</i> , 2015, 2, 366.	9.3	59
92	Large Deviations for Stochastic Tamed 3D Navier-Stokes Equations. <i>Applied Mathematics and Optimization</i> , 2010, 61, 267-285.	1.6	58
93	Spectroscopic characterization of explosives in the far-infrared region. , 2004, 5411, 1.		57
94	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
95	Strong Terahertz Radiation from a Liquid-Water Line. <i>Physical Review Applied</i> , 2019, 12, .	3.8	57
96	Multilevel silicon diffractive optics for terahertz waves. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002, 20, 2780.	1.6	56
97	Enhancement of terahertz wave generation from laser induced plasma. <i>Applied Physics Letters</i> , 2007, 90, 141104.	3.3	56
98	Characterization of T-ray binary lenses. <i>Optics Letters</i> , 2002, 27, 1183.	3.3	54
99	Three-dimensional terahertz wave imaging. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004, 362, 283-299.	3.4	54
100	Terahertz Wave Imaging System Based on Glow Discharge Detector. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011, 17, 177-182.	2.9	54
101	Terahertz wave generation from liquid water films via laser-induced breakdown. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	54
102	Optical rectification in an area with a diameter comparable to or smaller than the center wavelength of terahertz radiation. <i>Optics Letters</i> , 2002, 27, 1067.	3.3	52
103	Recent Progresses in Terahertz Wave Air Photonics. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2011, 1, 274-281.	3.1	52
104	Stochastic tamed 3D Navier-Stokes equations: existence, uniqueness and ergodicity. <i>Probability Theory and Related Fields</i> , 2009, 145, 211.	1.8	51
105	Spatial sampling of terahertz fields with sub-wavelength accuracy via probe-beam encoding. <i>Light: Science and Applications</i> , 2019, 8, 55.	16.6	51
106	Nonlinear optical oscillation dynamics in high-Q lithium niobate microresonators. <i>Optics Express</i> , 2017, 25, 13504.	3.4	50
107	Terahertz field enhancement to the MV/cm regime in a tapered parallel plate waveguide. <i>Optics Express</i> , 2012, 20, 8344.	3.4	48
108	Optical constants of ice Ih crystal at terahertz frequencies. <i>Applied Physics Letters</i> , 2001, 79, 491-493.	3.3	47

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109	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
110	Stochastic flows of SDEs with irregular coefficients and stochastic transport equations. Bulletin Des Sciences Mathematiques, 2010, 134, 340-378.	1.0	47
111	Semiconductor dynamic aperture for near-field terahertz wave imaging. IEEE Journal of Selected Topics in Quantum Electronics, 2001, 7, 608-614.	2.9	46
112	Towards functional 3D T-ray imaging. Physics in Medicine and Biology, 2002, 47, 3735-3742.	3.0	46
113	Systematic study of broadband terahertz gas sensor. Applied Physics Letters, 2008, 93, 261106.	3.3	46
114	Martingale solutions and Markov selections for stochastic partial differential equations. Stochastic Processes and Their Applications, 2009, 119, 1725-1764.	0.9	45
115	Ultrafast hydrogen bond dynamics of liquid water revealed by terahertz-induced transient birefringence. Light: Science and Applications, 2020, 9, 136.	16.6	45
116	Double modulated differential THz-TDS for thin film dielectric characterization. Microelectronics Journal, 2002, 33, 1033-1042.	2.0	43
117	Development of terahertz wave microscopes. Infrared Physics and Technology, 2004, 45, 417-425.	2.9	43
118	Broadband terahertz detection with selected gases. Journal of the Optical Society of America B: Optical Physics, 2009, 26, A66.	2.1	42
119	Stochastic flows and Bismut formulas for stochastic Hamiltonian systems. Stochastic Processes and Their Applications, 2010, 120, 1929-1949.	0.9	42
120	Driving intervalley scattering and impact ionization in InAs with intense terahertz pulses. Applied Physics Letters, 2011, 98, .	3.3	42
121	Flat liquid jet as a highly efficient source of terahertz radiation. Optics Express, 2019, 27, 15485.	3.4	42
122	Study of ZnCdTe crystals as terahertz wave emitters and detectors. Applied Physics Letters, 2002, 81, 4115-4117.	3.3	41
123	Terahertz response of field-effect transistors in saturation regime. Applied Physics Letters, 2011, 98, 243505.	3.3	41
124	High Kerr nonlinearity of water in THz spectral range. Optics Express, 2019, 27, 10419.	3.4	41
125	Freidlin's large deviations for stochastic evolution equations. Journal of Functional Analysis, 2008, 254, 3148-3172.	1.4	40
126	Balanced terahertz wave air-biased-coherent-detection. Applied Physics Letters, 2011, 98, .	3.3	40

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127	Homeomorphic flows for multi-dimensional SDEs with non-Lipschitz coefficients. Stochastic Processes and Their Applications, 2005, 115, 435-448.	0.9	39
128	Terahertz wave reciprocal imaging. Applied Physics Letters, 2006, 88, 151107.	3.3	39
129	III-VI Chalcogenide Semiconductor Crystals for Broadband Tunable THz Sources and Sensors. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 284-288.	2.9	39
130	The measurement of the dielectric and optical properties of nano thin films by THz differential time-domain spectroscopy. Microelectronics Journal, 2003, 34, 63-69.	2.0	38
131	Measurement of spatio-temporal terahertz field distribution by using chirped pulse technology. IEEE Journal of Quantum Electronics, 2000, 36, 1214-1222.	1.9	37
132	“All air” plasma terahertz spectroscopy. Optics Letters, 2011, 36, 2399.	3.3	37
133	Terahertz wave emission from a liquid water film under the excitation of asymmetric optical fields. Applied Physics Letters, 2018, 113, .	3.3	35
134	Freidlin’s Wentzell’s large deviations for homeomorphism flows of non-Lipschitz SDEs. Bulletin Des Sciences Mathematiques, 2005, 129, 643-655.	1.0	34
135	A first principle study of terahertz (THz) spectra of acephate. Chemical Physics Letters, 2008, 452, 59-66.	2.6	34
136	(L^p)-maximal regularity of nonlocal parabolic equations and applications. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2013, 30, 573-614.	1.4	34
137	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
138	Free-space transient magneto-optic sampling. Applied Physics Letters, 1997, 71, 1452-1454.	3.3	33
139	Terahertz wave generation and detection from a CdTe crystal characterized by different excitation wavelengths. Optics Letters, 2006, 31, 978.	3.3	33
140	Optical property of beta barium borate in terahertz region. Applied Physics Letters, 2008, 93, .	3.3	32
141	Terahertz-field-induced second-harmonic generation in a beta barium borate crystal and its application in terahertz detection. Applied Physics Letters, 2009, 95, .	3.3	32
142	Investigation of ultra-broadband terahertz time-domain spectroscopy with terahertz wave gas photonics. Frontiers of Optoelectronics, 2014, 7, 121-155.	3.7	32
143	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
144	Tomographic imaging with a terahertz binary lens. Applied Physics Letters, 2003, 82, 1821-1823.	3.3	31

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145	Terahertz wave amplification in gases with the excitation of femtosecond laser pulses. Applied Physics Letters, 2007, 91, 211102.	3.3	31
146	Skorohod problem and multivalued stochastic evolution equations in Banach spaces. Bulletin Des Sciences Mathematiques, 2007, 131, 175-217.	1.0	31
147	TAMED 3D NAVIER-STOKES EQUATION: EXISTENCE, UNIQUENESS AND REGULARITY. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 2009, 12, 525-549.	0.5	31
148	Laser-induced photoacoustics influenced by single-cycle terahertz radiation. Optics Letters, 2010, 35, 3544.	3.3	31
149	NON-LIPSCHITZ BACKWARD STOCHASTIC VOLTERRA TYPE EQUATIONS WITH JUMPS. Stochastics and Dynamics, 2007, 07, 479-496.	1.2	30
150	Exponential Ergodicity of Stochastic Burgers Equations Driven by $\hat{1}\pm$ -Stable Processes. Journal of Statistical Physics, 2014, 154, 929-949.	1.2	30
151	Terahertz pulse measurement with an optical streak camera. Optics Letters, 1999, 24, 1245.	3.3	29
152	Terahertz wave generation from thin metal films excited by asymmetrical optical fields. Optics Letters, 2014, 39, 777.	3.3	29
153	Low noise laser-based T-ray spectroscopy of liquids using double-modulated differential time-domain spectroscopy. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, S786-S795.	1.4	28
154	Schilder theorem for the Brownian motion on the diffeomorphism group of the circle. Journal of Functional Analysis, 2005, 224, 107-133.	1.4	28
155	THz diffuse reflectance spectra of selected explosives and related compounds. , 2005, 5790, 19.		28
156	Imaging of field-effect transistors by focused terahertz radiation. Solid-State Electronics, 2009, 53, 571-573.	1.4	28
157	Stochastic flows for SDEs with non-Lipschitz coefficients. Bulletin Des Sciences Mathematiques, 2003, 127, 739-754.	1.0	27
158	Exponential ergodicity of non-Lipschitz multivalued stochastic differential equations. Bulletin Des Sciences Mathematiques, 2010, 134, 391-404.	1.0	27
159	Well-posedness and large deviation for degenerate SDEs with Sobolev coefficients. Revista Matematica Iberoamericana, 2013, 29, 25-52.	0.9	27
160	SUCCESSIVE APPROXIMATIONS OF INFINITE DIMENSIONAL SDES WITH JUMP. Stochastics and Dynamics, 2005, 05, 609-619.	1.2	26
161	Water vapor: An extraordinary terahertz wave source under optical excitation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6037-6040.	2.1	26
162	Weak uniqueness of Fokker-Planck equations with degenerate and bounded coefficients. Comptes Rendus Mathematique, 2010, 348, 435-438.	0.3	26

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163	Stochastic Lagrangian Particle Approach to Fractal Navier-Stokes Equations. Communications in Mathematical Physics, 2012, 311, 133-155.	2.2	26
164	Terahertz Technology: Terahertz Tomographic Imaging With a Fresnel Lens. Optics and Photonics News, 2002, 13, 59.	0.5	25
165	ON STOCHASTIC EVOLUTION EQUATIONS WITH NON-LIPSCHITZ COEFFICIENTS. Stochastics and Dynamics, 2009, 09, 549-595.	1.2	25
166	Derivative formula and applications for degenerate diffusion semigroups. Journal Des Mathematiques Pures Et Appliquees, 2013, 99, 726-740.	1.6	25
167	Time-domain dielectric constant measurement of thin film in GHz~THz frequency range near the Brewster angle. Applied Physics Letters, 1999, 74, 2113-2115.	3.3	24
168	NOISE REDUCTION IN TERAHERTZ THIN FILM MEASUREMENTS USING A DOUBLE MODULATED DIFFERENTIAL TECHNIQUE. Fluctuation and Noise Letters, 2002, 02, R13-R28.	1.5	24
169	Production of high power femtosecond terahertz radiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 507, 537-540.	1.6	24
170	Intrinsic chirp of single-cycle pulses. Physical Review A, 2010, 81, .	2.5	24
171	Preference of subpicosecond laser pulses for terahertz wave generation from liquids. Advanced Photonics, 2020, 2, 1.	11.8	24
172	Terahertz time-domain spectroscopy of atmosphere with different humidity. , 2003, , .		23
173	Large Deviations for Multivalued Stochastic Differential Equations. Journal of Theoretical Probability, 2010, 23, 1142-1156.	0.8	23
174	Densities for SDEs driven by degenerate α -stable processes. Annals of Probability, 2014, 42, .	1.8	23
175	Tera Tool [terahertz time-domain spectroscopy]. IEEE Circuits and Devices: the Magazine of Electronic and Photonic Systems, 2002, 18, 23-28.	0.4	22
176	Non-destructive sub-THz CW imaging. , 2005, , .		22
177	Heat kernel estimates for critical fractional diffusion operators. Studia Mathematica, 2014, 224, 221-263.	0.7	22
178	Emission of terahertz pulses from vanadium dioxide films undergoing metal~insulator phase transition. Optica, 2015, 2, 790.	9.3	22
179	Vibrational spectrum of \hat{I}^3 -HNIW investigated using terahertz time-domain spectroscopy. Optics Express, 2006, 14, 3654.	3.4	21
180	Plasma characterization using terahertz-wave-enhanced fluorescence. Applied Physics Letters, 2010, 96, 041505.	3.3	21

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181	Terahertz radiation in alkali vapor plasmas. Applied Physics Letters, 2014, 104, 191106.	3.3	21
182	Application of broadband terahertz spectroscopy in semiconductor nonlinear dynamics. Frontiers of Optoelectronics, 2014, 7, 220-242.	3.7	21
183	Broadband terahertz wave emission from liquid metal. Applied Physics Letters, 2020, 117, .	3.3	21
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