

Wojciech Gadomski

List of Publications by Year in descending order

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76
papers

1,254
citations

430442

18
h-index

377514

34
g-index

81
all docs

81
docs citations

81
times ranked

860
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental control of chaos by means of weak parametric perturbations. <i>Physical Review E</i> , 1994, 49, R2528-R2531.	0.8	135
2	Dynamic behavior and onset of low-dimensional chaos in a modulated homogeneously broadened single-mode laser: Experiments and theory. <i>Physical Review A</i> , 1986, 34, 2073-2081.	1.0	108
3	Laser Dynamics with Competing Instabilities. <i>Physical Review Letters</i> , 1987, 58, 2205-2208.	2.9	89
4	Generation of chaotic dynamics by feedback on a laser. <i>Physical Review A</i> , 1986, 34, 1617-1620.	1.0	85
5	Measurement of the formation and evolution of a strange attractor in a laser. <i>Physical Review Letters</i> , 1985, 55, 339-342.	2.9	50
6	Dynamics of laser buildup from quantum noise. <i>Physical Review A</i> , 1989, 39, 4004-4015.	1.0	50
7	Water structure in nanopores of agarose gel by Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2004, 121, 12583.	1.2	48
8	Silver route to cuprate analogs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1495-1500.	3.3	47
9	Influence of confinement on solvation of ethanol in water studied by Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2010, 133, 234505.	1.2	44
10	Swept dynamics of a CO ₂ laser near threshold: Two- versus four-level model. <i>Optics Communications</i> , 1988, 65, 47-51.	1.0	43
11	Laser with feedback: an optical implementation of competing instabilities, Shil'nikov chaos, and transient fluctuation enhancement. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1988, 5, 1153.	0.9	41
12	Delayed bifurcation at the threshold of a swept gain CO ₂ laser. <i>Optics Communications</i> , 1989, 70, 155-160.	1.0	39
13	A femtosecond snapshot of crystalline order in molecular liquids. <i>Journal of Chemical Physics</i> , 1998, 108, 8489-8498.	1.2	28
14	Temperature-Dependent Ultrafast Solvation Response and Solute Diffusion in Acetamide-Urea Deep Eutectic Solvent. <i>Journal of Physical Chemistry B</i> , 2019, 123, 9212-9221.	1.2	25
15	Ultrashort memory of the quasicrystalline order in water by optical Kerr effect spectroscopy. <i>Chemical Physics Letters</i> , 2006, 429, 575-580.	1.2	24
16	Detailed insight into the hydrogen bonding interactions in acetone-methanol mixtures. A molecular dynamics simulation and Voronoi polyhedra analysis study. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5979.	1.3	24
17	Evolution of water structure in biopolymer solutions during the gelation process. <i>Chemical Physics Letters</i> , 2004, 399, 471-474.	1.2	20
18	Potent strategy towards strongly emissive nitroaromatics through a weakly electron-deficient core. <i>Chemical Science</i> , 2021, 12, 14039-14049.	3.7	19

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19	Magnetotransport study of MgB ₂ superconductor. Superconductor Science and Technology, 2003, 16, 1167-1172.	1.8	18
20	Self-pulsations in phonon-assisted lasers. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 2681.	0.9	15
21	Dynamics of the time-resolved stimulated Raman scattering spectrum in presence of transient vibronic inversion of population on the example of optically excited trans- <i>l</i> -apo-8'-carotenal. Journal of Chemical Physics, 2014, 140, 204312.	1.2	15
22	Efficient Electrosynthesis of Ag ₄ SO ₄ : A Powerful Oxidizer and Narrow Band Gap Semiconductor. European Journal of Inorganic Chemistry, 2016, 2016, 5401-5404.	1.0	15
23	Conservation of the Kr+(2P _{1/2}) state in the reactive quenching of Kr(5s ² [1/2]0) atoms by halogen-containing molecules. Journal of Chemical Physics, 1996, 105, 5020-5036.	1.2	14
24	Homoclinic orbits and chaos in the vibronic short-cavity standing-wave alexandrite laser. Journal of the Optical Society of America B: Optical Physics, 2000, 17, 188.	0.9	14
25	Inhomogeneous Distribution in Methanol/Acetone Mixture: Vibrational and NMR Spectroscopy Analysis. Journal of Physical Chemistry B, 2014, 118, 1416-1425.	1.2	14
26	The role of stimulated Raman scattering in supercontinuum generation in bulk diamond. Optics Express, 2013, 21, 24201.	1.7	13
27	Parametric bistable resonance in coherent Raman scattering in crystals. Physical Review A, 1986, 34, 1277-1296.	1.0	12
28	Molecular dynamics simulations and femtosecond optical Kerr effect spectroscopy of methanol/acetone mixtures. Journal of Molecular Liquids, 2011, 159, 60-69.	2.3	12
29	Low frequency response of methanol/acetone mixtures: Optical Kerr effect and molecular dynamics simulations. Journal of Molecular Liquids, 2012, 176, 29-32.	2.3	11
30	Influence of A D.C. electric field on the polarization of an intense laser beam in liquids. Optics Communications, 1980, 33, 331-334.	1.0	10
31	Quenching constants of KrF(B, C) by Kr and Xe and the KrF(B, C) equilibrium constant. Chemical Physics Letters, 1992, 189, 153-158.	1.2	10
32	Ultrafast optical Kerr effect spectroscopy of water confined in nanopores of the gelatin gel. Journal of Chemical Physics, 2007, 126, 184708.	1.2	10
33	Femtosecond optical Kerr effect setup with signal <i>in vivo</i> view for measurements in the solid, liquid, and gas phases. Review of Scientific Instruments, 2015, 86, 103109.	0.6	10
34	Electronic quenching rate constants of KrF(B,C) and Kr ₂ F*. Journal of Chemical Physics, 1993, 99, 2591-2600.	1.2	9
35	Synthesis and optical properties of two new PPV derivatives embedded on the surface of PbS nanocrystals. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 215, 69-75.	2.0	9
36	Search for the origin of synergistic solvation in methanol/chloroform mixture using optical Kerr effect spectroscopy. Journal of Molecular Liquids, 2022, 345, 117013.	2.3	8

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37	Turn-on transient statistics and dynamics in a multimode, short-cavity laser. <i>Optics Letters</i> , 1992, 17, 931.	1.7	7
38	Transient statistics in stabilizing periodic orbits. <i>Physical Review E</i> , 1995, 52, 4676-4680.	0.8	7
39	Turn-on transient dynamics in a multimode, compound-cavity laser. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1997, 14, 180.	0.9	7
40	Critical exponents in a percolation picture of the fluorescence quenching during the sol-gel transition. <i>European Physical Journal B</i> , 2000, 17, 281-288.	0.6	7
41	Observation of Kastler ring emission from a short-cavity laser. <i>Applied Optics</i> , 1993, 32, 5930.	2.1	6
42	Distribution of vortex lattice melting temperatures in mixed state diagram of Bi2212 tapes. <i>Physica C: Superconductivity and Its Applications</i> , 1998, 303, 169-176.	0.6	6
43	Time evolution of the Raman and fluorescence spectra of the D2O and H2O gelatin solutions during the sol-gel transition. <i>Journal of Molecular Structure</i> , 1999, 511-512, 181-187.	1.8	6
44	Homoclinic dynamics of the vibronic laser. <i>Chaos, Solitons and Fractals</i> , 2003, 17, 387-396.	2.5	6
45	Automodulations in an extended cavity, passively modelocked Ti:Sapphire oscillator-period doubling and chaos. <i>Optics Express</i> , 2010, 18, 26989.	1.7	6
46	Dynamics of intermolecular interactions in CCl ₄ via the isotope effect by femtosecond time-resolved spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16046-16054.	1.3	6
47	Quantum theory of the vibronic solid-state laser. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999, 16, 848.	0.9	5
48	Solgel transition in dye fluorescence measurements. <i>Applied Optics</i> , 1997, 36, 7645.	2.1	4
49	Universal critical exponents in the percolation approach to fluorescence and ultrasound studies of the gelation process. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 9191-9199.	0.7	4
50	On control of chaos and synchronization in the vibronic laser. <i>Optics Express</i> , 2009, 17, 14166.	1.7	4
51	Coherent optical phonons in pure and Pr ³⁺ doped YAG crystal studied by Optical Kerr Effect spectroscopy: Temperature and concentration dependence. <i>Chemical Physics</i> , 2014, 442, 119-127.	0.9	4
52	Evolution of the polarization state of an intense optical wave in uniaxial crystals. <i>Physical Review A</i> , 1986, 34, 351-359.	1.0	3
53	Transient absorption study on the influence of several polyphenylene vinylene derivatives on the exciton lifetimes in lead(II) sulfide quantum dots. <i>Chemical Physics Letters</i> , 2012, 532, 77-83.	1.2	3
54	Coherent optical phonons in alexandrite crystal studied by Optical Kerr Effect spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 1312-1316.	1.2	3

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55	Fine structures in Raman spectra of tetrahedral tetrachloride molecules in femtosecond coherent spectroscopy. <i>Journal of Chemical Physics</i> , 2019, 150, 244505.	1.2	3
56	Dynamics in the BMIM PF ₆ /acetonitrile mixtures observed by femtosecond optical Kerr effect and molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 24544-24554.	1.3	3
57	Light-induced electric permittivity change in the presence of a dc electric field. <i>Journal of Applied Physics</i> , 1983, 54, 1029-1032.	1.1	2
58	Bistability of the refractive index due to parametric resonance in crystals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1986, 117, 156-160.	0.9	2
59	Intrinsic optical bistability in layered crystals. <i>Applied Optics</i> , 1995, 34, 4326.	2.1	2
60	Instabilities of a short-cavity standing-wave vibronic laser. , 1998, 3573, 2.		2
61	Broadening of the resistive transition in polycrystalline Bi/Pb-2223. <i>Superconductor Science and Technology</i> , 2000, 13, 1142-1144.	1.8	2
62	The influence of interactions between isotopologues on coherent, ultrafast vibrational dynamics of liquid C ₂ Cl ₄ . <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 5149-5158.	1.3	2
63	Dynamic bistability in parametric resonance in crystals. <i>Optics Communications</i> , 1986, 59, 313-316.	1.0	1
64	Probing slow dynamics by ultrafast process: Sol-gel transition detected by transient absorption spectroscopy of quantum dots. <i>Journal of Molecular Liquids</i> , 2012, 176, 106-111.	2.3	1
65	<title>Deterministic and quantum noise in dye lasers</title>. , 1991, , .		0
66	Creation and detuning of the two-photon overtone state in crystals by biharmonic pumping. , 1993, , .		0
67	Intrinsic optical bistability for low-frequency rigid layer modes in MoS ₂ crystal. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 210, 416-422.	0.9	0
68	Phase dynamics in bistable and chaotic behaviour of a soft crystal mode parametrically driven by an optical field. <i>Optics Communications</i> , 1996, 130, 97-103.	1.0	0
69	Ultrafast optical Kerr effect spectroscopy of water confined in nanopores of the gelatin gel. , 0, , .		0
70	Automodulations observation in an extended cavity Ti:Sapphire oscillator - period doubling and chaos. , 2011, , .		0
71	Back Cover: Efficient Electrosynthesis of AgII SO ₄ : A Powerful Oxidizer and Narrow Band Gap Semiconductor (<i>Eur. J. Inorg. Chem.</i> 35/2016). <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 5504-5504.	1.0	0
72	Characterization of a Strange Attractor in an Optical System. <i>Springer Proceedings in Physics</i> , 1986, , 311-313.	0.1	0

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73	Elimination of the Dynamics of the Rotational Levels in a Four-Level CO ₂ Laser Model. , 1990, , 339-342.		0
74	Vortex Lattice Melting and Viscosity in Y _{0.6} Dy _{0.4} Ba ₂ Cu ₃ O _{7-x} Superconductor Studied by Electrical Resistivity. , 1999, , 301-316.		0
75	BEHAVIOR OF A CO ₂ LASER NEAR THRESHOLD ; DIFFERENCE BETWEEN PUMP MODULATION AND LOSS MODULATION. Journal De Physique Colloque, 1988, 49, C2-363-C2-366.	0.2	0
76	Time resolved transient transmission spectroscopy of TiCl ₄ and SnCl ₄ . Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 280, 121507.	2.0	0