

Svatopluk CiviÅ¡

List of Publications by Year in descending order

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185
papers

2,852
citations

201575

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195
docs citations

195
times ranked

2144
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogen Oxide Production in Laser-Induced Breakdown Simulating Impacts on the Hadean Atmosphere. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	5
2	Morphology of Meteorite Surfaces Ablated by High-Power Lasers: Review and Applications. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4869.	1.3	2
3	New physical insights: Formamide discharge decomposition and the role of fragments in the formation of large biomolecules. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 278, 121322.	2.0	1
4	Formamide-Based Post-impact Thermal Prebiotic Synthesis in Simulated Craters: Intermediates, Products and Mechanism. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .	1.1	2
5	Application of a dielectric breakdown induced by high-power lasers for a laboratory simulation of meteor plasma. <i>Experimental Astronomy</i> , 2021, 51, 425-451.	1.6	11
6	FTIR laboratory measurement of HeI spectra in the 6.5â€”14 Åµm spectral range: Transitions involving $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si158.svg"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{f} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle, \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si159.svg"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{g} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle, \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si160.svg"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{h} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle, \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$	1.1	2
7	Time-resolved Fourier transform infrared emission spectroscopy of CO $\hat{\nu}_1$ and $\hat{\nu}_2$ extended bands in the ground X ¹ Σ ⁺ state produced by formamide glow discharge. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 262, 107521.	1.1	4
8	Prebiotic Route to Thymine from Formamide—A Combined Experimental—Theoretical Study. <i>Molecules</i> , 2021, 26, 2248.	1.7	1
9	Abiotic Formation of Methane and Prebiotic Molecules on Mars and Other Planets. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1172-1179.	1.2	2
10	Thermal Decomposition of Cocaine and Methamphetamine Investigated by Infrared Spectroscopy and Quantum Chemical Simulations. <i>ACS Omega</i> , 2021, 6, 14447-14457.	1.6	2
11	Vibrational spectra of La@ $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si54.svg"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{C} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 60 \langle \text{mml:math} \rangle$ and Ce@ $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si55.svg"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{C} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 60 \langle \text{mml:math} \rangle$ endohedral fullerenes: Influence of spin state mult. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 254, 119593.	2.0	4
12	Micellar electrokinetic chromatography as a powerful analytical tool for research on prebiotic chemistry. <i>Microchemical Journal</i> , 2021, 167, 106022.	2.3	3
13	High resolution emission FT spectra of sodium in a microwave discharge: Intensity variation of the D $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si5.svg"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle / \text{D} \langle \text{mml:math} \rangle$ $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ lines in exoplanetary atmospheres. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 273, 107838.	1.1	1
14	The spectrum of ammonia near 0.793 Å $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si32.svg"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \text{ mathvariant="normal"} \rangle \hat{\nu}_4 \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{m.}$ <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 273, 107838.	1.1	2
15	Identifiable Acetylene Features Predicted for Young Earth-like Exoplanets with Reducing Atmospheres Undergoing Heavy Bombardment. <i>Astrophysical Journal</i> , 2020, 888, 21.	1.6	25
16	Primordial Radioactivity and Prebiotic Chemical Evolution: Effect of $\hat{\nu}_3$ Radiation on Formamide-Based Synthesis. <i>Journal of Physical Chemistry B</i> , 2020, 124, 8951-8959.	1.2	5
17	Ariel — a window to the origin of life on early earth?. <i>Experimental Astronomy</i> , 2020, , 1.	1.6	1
18	Kr I spectra in the 5â€”14 Åµm range. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 249, 106985.	1.1	2

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19	One-Pot Hydrogen Cyanide-Based Prebiotic Synthesis of Canonical Nucleobases and Glycine Initiated by High-Velocity Impacts on Early Earth. <i>Astrobiology</i> , 2020, 20, 1476-1488.	1.5	24
20	Acidic Hydrogen Enhanced Photocatalytic Reduction of CO ₂ on Planetary Surfaces. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1001-1009.	1.2	6
21	Formic Acid, a Ubiquitous but Overlooked Component of the Early Earth Atmosphere. <i>Chemistry - A European Journal</i> , 2020, 26, 12075-12080.	1.7	15
22	Electron-impact vibrational excitation of isocyanic acid HNCO. <i>Physical Review A</i> , 2020, 102, .	1.0	7
23	Experimental Setup and Spectral Analysis. <i>Springer Series in Chemical Physics</i> , 2020, , 3-7.	0.2	0
24	Spectra. <i>Springer Series in Chemical Physics</i> , 2020, , 9-144.	0.2	0
25	Prebiotic synthesis at impact craters: the role of Fe-clays and iron meteorites. <i>Chemical Communications</i> , 2019, 55, 10563-10566.	2.2	13
26	Additional Views on Prebiotic Molecules. <i>Springer Briefs in Molecular Science</i> , 2019, , 69-76.	0.1	0
27	Oxygen Atoms Exchange Between Carbon Dioxide and TiO ₂ (Light Induced and Spontaneous). <i>Springer Briefs in Molecular Science</i> , 2019, , 9-39.	0.1	0
28	Carbon Dioxide and the Effects on Climate. <i>Springer Briefs in Molecular Science</i> , 2019, , 1-7.	0.1	0
29	The Chemistry of CO ₂ and TiO ₂ . <i>Springer Briefs in Molecular Science</i> , 2019, , .	0.1	3
30	Prebiotic synthesis initiated in formaldehyde by laser plasma simulating high-velocity impacts. <i>Astronomy and Astrophysics</i> , 2019, 626, A52.	2.1	35
31	Main spectral features of meteors studied using a terawatt-class high-power laser. <i>Astronomy and Astrophysics</i> , 2019, 630, A127.	2.1	16
32	Photochemical Reduction of CO ₂ on Terrestrial Planets. , 2019, , .		0
33	Formation of Methane and (Per)Chlorates on Mars. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 221-232.	1.2	24
34	Comparative SIFT-MS, GC-MS and FTIR analysis of methane fuel produced in biogas stations and in artificial photosynthesis over acidic anatase TiO ₂ and montmorillonite. <i>Journal of Molecular Spectroscopy</i> , 2018, 348, 152-160.	0.4	14
35	FTIR Laboratory Measurement of O ₂ Spectra in the 0.77-12.5 μ m Spectral Range: Rydberg States and Oscillator Strengths. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 11.	3.0	11
36	HNCO-based synthesis of formamide in planetary atmospheres. <i>Astronomy and Astrophysics</i> , 2018, 616, A150.	2.1	34

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37	Resonances and Dissociative Electron Attachment in HNCO. <i>Physical Review Letters</i> , 2018, 121, 143402.	2.9	25
38	Calibration-free quantitative elemental analysis of meteor plasma using reference laser-induced breakdown spectroscopy of meteorite samples. <i>Astronomy and Astrophysics</i> , 2018, 610, A73.	2.1	24
39	Time-resolved Fourier transform infrared spectroscopy and updated system of neutral oxygen (O I) levels. , 2018, , .		0
40	First application of multilayer graphene cantilever for laser photoacoustic detection. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 101, 9-14.	2.5	13
41	Formation of nucleobases in a Miller-Urey reducing atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4306-4311.	3.3	120
42	Spontaneous oxygen isotope exchange between carbon dioxide and natural clays: Refined rate constants referenced to TiO ₂ (anatase/rutile). <i>Applied Clay Science</i> , 2017, 137, 6-10.	2.6	3
43	The origin of methane and biomolecules from a CO ₂ cycle on terrestrial planets. <i>Nature Astronomy</i> , 2017, 1, 721-726.	4.2	27
44	Recording and evaluation of high resolution optical meteor spectra and comparative laboratory measurements using laser ablation of solid meteorite specimens. , 2017, , .		1
45	Absorption spectra of ammonia near 1 μ m. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 203, 392-397.	1.1	11
46	High Energy Radical Chemistry Formation of HCN-rich Atmospheres on early Earth. <i>Scientific Reports</i> , 2017, 7, 6275.	1.6	70
47	The argon spectrum in the range of 1200-2000 cm ⁻¹ . <i>Optics and Spectroscopy (English Translation of) Tj ETQq</i> , 2017, 1, 0.784314 rgBT	0.2	0
48	Prebiotic synthesis of nucleic acids and their building blocks at the atomic level - merging models and mechanisms from advanced computations and experiments. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 20047-20066.	1.3	48
49	Argon FTIR spectra between 800 and 2000 cm ⁻¹ : h- and i-levels and transition probabilities. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 182, 337-345.	1.1	4
50	Influence of photochemical processes on traffic-related airborne pollutants in urban street canyon. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016, 147, 1-10.	0.6	4
51	Spectroscopic investigations of high-energy-density plasma transformations in a simulated early reducing atmosphere containing methane, nitrogen and water. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27317-27325.	1.3	11
52	Spontaneous oxygen isotope exchange between carbon dioxide and oxygen containing minerals (Do) Tj ETQq 0 0 0 rgBT /Overlock 10 TF		
53	Selected ion flow tube mass spectrometry analyses of laser decomposition products of a range of explosives and ballistic propellants. <i>Analytical Methods</i> , 2016, 8, 1145-1150.	1.3	11
54	Spontaneous Oxygen Isotope Exchange between Carbon Dioxide and Oxygen-Containing Minerals: Do the Minerals "Breathe" CO ₂ ? <i>Journal of Physical Chemistry C</i> , 2016, 120, 508-516.	1.5	11

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55	Photocatalytic transformation of CO ₂ to CH ₄ and CO on acidic surface of TiO ₂ anatase. Optical Materials, 2016, 56, 80-83.	1.7	18
56	TiO ₂ -catalyzed synthesis of sugars from formaldehyde in extraterrestrial impacts on the early Earth. Scientific Reports, 2016, 6, 23199.	1.6	31
57	FTIR laboratory measurement of Ne [∞] Rydberg states in 1.43~14.3 μm spectral range. Astronomy and Astrophysics, 2015, 582, A12.	2.1	5
58	Thin graphite membranes for laser photoacoustic spectroscopy. , 2015, , .		1
59	Silicon micro-levellers and a multilayer graphene membrane studied via laser photoacoustic detection. Journal of Sensors and Sensor Systems, 2015, 4, 103-109.	0.6	12
60	Oxygen Atom Exchange between Gaseous CO ₂ and TiO ₂ Nanoclusters. Journal of Physical Chemistry C, 2015, 119, 3605-3612.	1.5	18
61	Meteorite-catalyzed synthesis of nucleosides and other prebiotic compounds. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7109-7110.	3.3	20
62	Spontaneous and photoinduced conversion of CO ₂ on TiO ₂ anatase. , 2015, , .		0
63	High-energy chemistry of formamide: A unified mechanism of nucleobase formation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 657-662.	3.3	159
64	Zn I spectra in the 1300~6500 cm ⁻¹ range. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 134, 64-73.	1.1	11
65	Spontaneous and Photoinduced Conversion of CO ₂ on TiO ₂ Anatase (001)/(101) Surfaces. Journal of Physical Chemistry C, 2014, 118, 26845-26850.	1.5	18
66	Room temperature spontaneous conversion of OCS to CO ₂ on the anatase TiO ₂ surface. Chemical Communications, 2014, 50, 7712-7715.	2.2	9
67	Optical absorption spectroscopy with 1310 nm wavelength wafer-fused vertical-cavity surface-emitting lasers. , 2014, , .		0
68	High-Energy Chemistry of Formamide: A Simpler Way for Nucleobase Formation. Journal of Physical Chemistry A, 2014, 118, 719-736.	1.1	73
69	Langmuir probe measurement of the bismuth plasma plume formed by an extreme-ultraviolet pulsed laser. Journal Physics D: Applied Physics, 2014, 47, 405205.	1.3	11
70	Laser ablation of an indium target: time-resolved Fourier-transform infrared spectra of In I in the 700~7700 cm ⁻¹ range. Journal of Analytical Atomic Spectrometry, 2014, 29, 2275-2283.	1.6	6
71	Mechanism of Oxygen Exchange between CO ₂ and TiO ₂ (101) Anatase. Journal of Physical Chemistry C, 2014, 118, 1628-1639.	1.5	31
72	Near-infrared wafer-fused vertical-cavity surface-emitting lasers for HF detection. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 147, 53-59.	1.1	9

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73	Time-resolved Fourier transform infrared spectra of Sr: h-, g-levels and oscillator strengths. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 129, 324-332.	1.1	9
74	The application of high-resolution IR spectroscopy and isotope labeling for detailed investigation of TiO ₂ /gas interface reactions. Optical Materials, 2013, 36, 159-162.	1.7	20
75	Optical fiber interferometer array for scanless Fourier-transform spectroscopy. Optics Letters, 2013, 38, 2262.	1.7	9
76	Excitation of helium Rydberg states and doubly excited resonances in strong extreme ultraviolet fields: Full-dimensional quantum dynamics using exponentially tempered Gaussian basis sets. Journal of Chemical Physics, 2013, 139, 104314.	1.2	8
77	Infrared transitions and oscillator strengths of Ca and Mg. Astronomy and Astrophysics, 2013, 554, A24.	2.1	19
78	Fourier transform infrared emission spectra of atomic rubidium: g- and h-states. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 175002.	0.6	8
79	Formation of metal nanoparticles studied by high resolution time-resolved Fourier-transform infrared spectroscopy. , 2012, , .		0
80	Potassium spectra in the 700-7000 cm ⁻¹ domain: Transitions involving f-, g-, and h-states. Astronomy and Astrophysics, 2012, 541, A125.	2.1	26
81	Laser ablation of Cs: time-resolved Fourier-transform infrared spectra of atomic cesium in the 800-8000 cm ⁻¹ range. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1112.0.9		18
82	Photochemistry and Gas-Phase FTIR Spectroscopy of Formic Acid Interaction with Anatase Ti ₁₈ O ₂ Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 11200-11205.	1.5	38
83	Time-Resolved Fourier Transform Emission Spectroscopy of He/CH ₄ in a Positive Column Discharge. Journal of Physical Chemistry A, 2012, 116, 3137-3147.	1.1	18
84	On the Road from Formamide Ices to Nucleobases: IR-Spectroscopic Observation of a Direct Reaction between Cyano Radicals and Formamide in a High-Energy Impact Event. Journal of the American Chemical Society, 2012, 134, 20788-20796.	6.6	58
85	Combining Fourier transform nuclear quadrupole resonance (FT-NQR) spectroscopy and mass spectrometry (MS) to study the electronic structure of titanocene dichlorides. Analyst, The, 2012, 137, 1338.	1.7	2
86	Li ^I spectra in the 4.65-8.33 micron range: high- <i>L</i> states and oscillator strengths. Astronomy and Astrophysics, 2012, 545, A61.	2.1	22
87	Na ^I spectra in the 1.4-14 micron range: transitions and oscillator strengths involving f-, g-, and h-states. Astronomy and Astrophysics, 2012, 542, A35.	2.1	24
88	Low-excited f-, g- and h-states in Au, Ag and Cu observed by Fourier-transform infrared spectroscopy in the 1000-7500 cm ⁻¹ region. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 105002.	0.6	16
89	Laser Ablation of FOX-7: Proposed Mechanism of Decomposition. Analytical Chemistry, 2011, 83, 1069-1077.	3.2	50
90	Laser Spark Formamide Decomposition Studied by FT-IR Spectroscopy. Journal of Physical Chemistry A, 2011, 115, 12132-12141.	1.1	38

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91	HNC/HCN Ratio in Acetonitrile, Formamide, and BrCN Discharge. Journal of Physical Chemistry A, 2011, 115, 1885-1899.	1.1	35
92	Oxygen isotope exchange between carbon dioxide and solid Ti ¹⁸ O ₂ . , 2011, , .		0
93	Time-resolved FTIR emission spectroscopy of Cu in the 1800–3800 cm ⁻¹ region: transitions involving f and g states and oscillator strengths. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 025002.	0.6	14
94	Oxygen-Isotope Exchange between CO ₂ and Solid Ti ¹⁸ O ₂ . Journal of Physical Chemistry C, 2011, 115, 11156-11162.	1.5	35
95	Oxygen-isotope labeled titania: Ti ¹⁸ O ₂ . Physical Chemistry Chemical Physics, 2011, 13, 11583.	1.3	46
96	Time-Resolved Fourier Transform Emission Spectroscopy of CF ₃ Br and CF ₃ CFHCF ₃ in a Pulsed Electrical Discharge. Plasma Chemistry and Plasma Processing, 2011, 31, 417-426.	1.1	3
97	Atomic cesium 6h states observed by time-resolved FTIR spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 225006.	0.6	6
98	Infrared diode laser spectroscopy. Opto-electronics Review, 2010, 18, .	2.4	4
99	Time-resolved Fourier-transform infrared emission spectroscopy of Ag in the (1300–3600)-cm ⁻¹ region: Transitions involving f and g states and oscillator strengths. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 025002.		15
100	Diagnostic and characterization of the VCSEL diodes based on GaSb. Applied Physics B: Lasers and Optics, 2010, 99, 333-338.	1.1	3
101	Time-resolved Fourier-transform infrared emission spectroscopy of Au in the 1800–4000 cm ⁻¹ region: Rydberg transitions. Physical Review A, 2010, 81, .		17
102	A study of the composition of the products of laser-induced breakdown of hexogen, octogen, pentrite and trinitrotoluene using selected ion flow tube mass spectrometry and UV-Vis spectrometry. Analyst, The, 2010, 135, 1106.	1.7	41
103	Optical characterization of the VCSEL diodes based on GaSb. , 2010, , .		0
104	Can be diode laser emission characterized by high resolution FT spectrometry?. , 2009, , .		0
105	Diagnostic and characterization of the VCSEL diodes based on GaSb. , 2009, , .		0
106	CO ₂ -laser photoacoustic detection of gaseous n-pentylacetate. Journal of Molecular Spectroscopy, 2009, 256, 109-110.	0.4	5
107	Laser diode photoacoustic and FTIR laser spectroscopy of formaldehyde in the 2.3–3.5 μm spectral range. Journal of Molecular Spectroscopy, 2009, 256, 68-74.	0.4	22
108	Allan variance for optimal signal averaging monitoring by diode laser and CO ₂ laser photo-acoustic spectroscopy. Journal of Molecular Spectroscopy, 2009, 256, 99-101.	0.4	11

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109	Investigation of laser-plasma chemistry in CO ₂ -N ₂ -H ₂ O mixtures using 18O labeled water. Chemical Physics Letters, 2009, 472, 14-18.	1.2	29
110	Dispersion of Light and Heavy Pollutants in Urban Scale Models: CO ₂ Laser Photoacoustic Studies. Applied Spectroscopy, 2009, 63, 430-436.	1.2	10
111	Characterization of GaSb based VCSE and MQW lasers for 2.3 μm sensing application. , 2009, , .		0
112	Self-Assemblies of Cationic Porphyrins with Functionalized Water-Soluble Single-Walled Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2009, 9, 5795-5802.	0.9	8
113	Time-resolved Fourier transform emission spectroscopy of A ² Σ ⁺ infrared transition of the CN radical. Journal of Molecular Spectroscopy, 2008, 250, 20-26.	0.4	23
114	Time-resolved Fourier transform infrared emission spectroscopy of laser ablation products. Chemical Physics Letters, 2008, 463, 38-41.	1.2	20
115	A study of thermal decomposition and combustion products of disposable polyethylene terephthalate (PET) plastic using high resolution fourier transform infrared spectroscopy, selected ion flow tube mass spectrometry and gas chromatography mass spectrometry. Molecular Physics, 2008, 106, 1205-1214.	0.8	50
116	Spectroscopic Investigations of High-Power Laser-Induced Dielectric Breakdown in Gas Mixtures Containing Carbon Monoxide. Journal of Physical Chemistry A, 2008, 112, 7162-7169.	1.1	24
117	High-power laser-plasma chemistry in planetary atmospheres. Proceedings of the International Astronomical Union, 2008, 4, 473-474.	0.0	0
118	MQW laser diode photoacoustic detection of formaldehyde in 2.3 μm spectral range. , 2007, , .		0
119	Electrochemical conversion of dinitrogen to ammonia mediated by a complex of fullerene C ₆₀ and β-cyclodextrin. Chemical Communications, 2007, , 2270-2272.	2.2	36
120	A High-Power Laser-Driven Source of Sub-nanosecond Soft X-Ray Pulses for Single-Shot Radiobiology Experiments. Radiation Research, 2007, 168, 382-387.	0.7	14
121	Optical and X-ray Emission Spectroscopy of High-Power Laser-Induced Dielectric Breakdown in Molecular Gases and Their Mixtures. Journal of Physical Chemistry A, 2006, 110, 12113-12120.	1.1	27
122	Observational Studies Relating To Diffuse Interstellar Bands. AIP Conference Proceedings, 2006, , .	0.3	1
123	Time-resolved Fourier transform infrared emission spectroscopy of H ₃ ⁺ molecular ion. Chemical Physics Letters, 2006, 418, 448-453.	1.2	17
124	Chemical consequences of laser-induced breakdown in molecular gases. Progress in Quantum Electronics, 2006, 30, 75-88.	3.5	26
125	GaSb based lasers operating near 2.3 μm for high resolution absorption spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 3066-3069.	2.0	16
126	Transformation of fullerene peapods to double-walled carbon nanotubes induced by UV radiation. Carbon, 2005, 43, 1610-1616.	5.4	23

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127	Room-temperature diode laser photoacoustic spectroscopy near 2.3 μm . Applied Physics B: Lasers and Optics, 2005, 81, 857-861.	1.1	12
128	Search for C ₂ in Diffuse Clouds. Publication of the Astronomical Society of Japan, 2005, 57, 605-609.	1.0	9
129	Millimeter wave spectrum of bromomethyl radical, CH ₂ Br. Journal of Chemical Physics, 2005, 122, 134302.	1.2	16
130	High resolution emission Fourier transform infrared spectra of the 4p-5s and 5p-6s bands of ArH. Journal of Chemical Physics, 2005, 122, 114314.	1.2	4
131	Laser diode photoacoustic detection in the infrared and near infrared spectral ranges. Analyst, The, 2005, 130, 1148.	1.7	23
132	New rotation-vibration band and potential energy function of NeH ⁺ in the ground electronic state. Journal of Molecular Structure, 2004, 695-696, 5-11.	1.8	11
133	Time-resolved Fourier transform infrared emission spectroscopy of He ₂ produced by a pulsed discharge. Chemical Physics Letters, 2004, 383, 256-260.	1.2	11
134	Amino acid formation induced by high-power laser in CO ₂ /CO-N ₂ -H ₂ O gas mixtures. Chemical Physics Letters, 2004, 386, 169-173.	1.2	41
135	The Infrared Spectrum of CN in Its Ground Electronic State. Collection of Czechoslovak Chemical Communications, 2004, 69, 73-89.	1.0	22
136	Title is missing!. European Physical Journal D, 2003, 53, 171-177.	0.4	6
137	InAsSb/InAsSbP current-tunable laser with narrow spectral line width. Applied Physics B: Lasers and Optics, 2003, 76, 633-637.	1.1	4
138	Application of InAsSb/InAsSbP and lead chalcogenide infrared diode lasers for photoacoustic detection in the 3.2 and 5 μm region. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 3063-3074.	2.0	27
139	Wind Tunnel Simulation of Air Pollution Dispersion in a Street Canyon. Journal of AOAC INTERNATIONAL, 2002, 85, 243-248.	0.7	6
140	Photodegradation of 1-nitropyrene in solution and in the adsorbed state. Journal of Hazardous Materials, 2002, 95, 175-184.	6.5	8
141	Wind tunnel simulation of air pollution dispersion in a street canyon. Journal of AOAC INTERNATIONAL, 2002, 85, 243-8.	0.7	1
142	Simulation of Air Pollution in a Wind Tunnel. , 2001, , 275-299.		9
143	Application of Inverse Laplace Transformation Method for Analysis of Plasma Emission Formed by Laser Ablation of Pb-Bi-Sr-Ca-Cu-O. Contributions To Plasma Physics, 2001, 41, 417-424.	0.5	0
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