

Vladimir G Arakcheev

List of Publications by Year in descending order

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33
papers

266
citations

933264

10
h-index

996849

15
g-index

33
all docs

33
docs citations

33
times ranked

89
citing authors

#	ARTICLE	IF	CITATIONS
1	CARS diagnostics of molecular media under nanoporous confinement. <i>Laser Physics</i> , 2008, 18, 1451-1458.	0.6	29
2	Vibrational line shapes of liquid and subcritical carbon dioxide in nanopores. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 750-755.	1.2	21
3	CARS diagnostics of fluid adsorption and condensation in small mesopores. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1747-1753.	1.2	21
4	Linewidths and shifts of carbon dioxide CARS spectra near the critical point. <i>Journal of Raman Spectroscopy</i> , 2003, 34, 952-956.	1.2	17
5	Collisionally induced dephasing and rotational energy transfer in the CO ₂ Fermi dyad $\nu_2 + \nu_3$ branch 1388 cm ⁻¹ . <i>Journal of Raman Spectroscopy</i> , 2007, 38, 1046-1051.	1.2	14
6	Collisionally induced dephasing and rotational energy transfer in the CO ₂ Fermi dyad $\nu_2 + \nu_3$ branch 1285 cm ⁻¹ . <i>Journal of Raman Spectroscopy</i> , 2007, 38, 1038-1045.	1.2	13
7	Phase behavior of the molecular medium in nanopores and vibrational spectra structure transformation. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo)</i> Tj ETQq1 1 0.784314 rgBT14 Overlock 10 Tf 50 37	1.2	13
8	CARS diagnostics of fluid phase behavior in small mesopores at near-critical temperatures. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 1363-1368.	1.2	13
9	Narrowing of the vibrational spectrum under compression of liquid carbon dioxide. <i>JETP Letters</i> , 2009, 90, 524-529.	0.4	12
10	Broadening of vibrational spectra of carbon dioxide upon absorption and condensation in nanopores. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta)</i> , Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50 37	0.2	11
11	Broadening peculiarities of vibrational bands in the spectrum of carbon dioxide close to the critical temperature. <i>Russian Journal of Physical Chemistry B</i> , 2010, 4, 1245-1251.	0.2	11
12	Vibrational spectra of carbon dioxide adsorbed on nanopore walls at supermonolayer and submonolayer coverage. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 501-506.	1.2	11
13	Laser assisted synthesis of silver nanoparticles in silica aerogel by supercritical deposition technique. <i>Journal of Supercritical Fluids</i> , 2017, 127, 176-181.	1.6	11
14	CARS detection of liquid-like phase appearance in small mesopores. <i>Laser Physics</i> , 2017, 27, 115701.	0.6	10
15	Photo-induced processes in Ag and Eu ²⁺ -diketonates incorporated into aerogel matrix of silicon dioxide by supercritical fluid impregnation. <i>Russian Journal of Physical Chemistry B</i> , 2015, 9, 1137-1142.	0.2	8
16	Effect of wavelength in laser-assisted synthesis of silver nanoparticles by supercritical deposition technique. <i>Journal of Supercritical Fluids</i> , 2018, 140, 159-164.	1.6	8
17	Rotational time-domain CARS in H ₂ : departure from statistically independent collisional dephasing model. <i>Journal of Raman Spectroscopy</i> , 2003, 34, 977-982.	1.2	7
18	Dynamics of formation and decay of supercritical fluid silver colloid under pulse laser ablation conditions. <i>Russian Journal of Physical Chemistry B</i> , 2015, 9, 1074-1081.	0.2	6

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19	Spectroscopic characterization of adsorbate confined in small mesopores: Distinction of first surface-adsorbed layer, polymolecular layers, and liquid clusters. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1945-1952.	1.2	6
20	CARS diagnostics of phase transitions of molecular media confined in nanopores. , 2009, , .		4
21	Spectral characteristics of subcritical carbon dioxide in nanopores. <i>Russian Journal of Physical Chemistry B</i> , 2009, 3, 1062-1066.	0.2	4
22	Synthesis and characterization of silver nanoparticles in a nanoporous glass. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika)</i> , 2014, 69, 330-335.	0.1	4
23	Dicke effect in hydrogen S(0) rotational transition observed by time-domain CARS. <i>Journal of Raman Spectroscopy</i> , 2002, 33, 884-887.	1.2	3
24	CARS spectroscopy of carbon dioxide in the critical point vicinity. <i>Quantum Electronics</i> , 2004, 34, 86-90.	0.3	3
25	Spectroscopic characterization of supercritical carbon dioxide density change under isochoric heating in mesoporous glass. <i>Journal of Supercritical Fluids</i> , 2019, 143, 353-357.	1.6	3
26	Broadband picosecond radiation source based on noncollinear optical parametric amplifier. <i>Quantum Electronics</i> , 2014, 44, 335-340.	0.3	1
27	CARS-measurement of adsorption isotherms of carbon dioxide in Vycor glass and CARS-porosimetry. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 1507-1514.	1.2	1
28	Spectroscopic Detection of Critical Compression of Carbon Dioxide Confined in an Nanoporous Aerogel by Coherent Anti-Stokes Raman Spectroscopy. <i>Moscow University Physics Bulletin (English)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5		0
29	High-resolution spectroscopy of inhomogeneously broadened Raman resonances by time-domain CARS. , 2002, , .		0
30	Transient CARS spectroscopy of rotational transitions in H2: the statistical dependences of the Doppler and collision dephasing. <i>Quantum Electronics</i> , 2005, 35, 128-134.	0.3	0
31	Vibrational spectra of molecular fluids in nanopores. <i>Journal of Physics: Conference Series</i> , 2012, 397, 012061.	0.3	0
32	CARS Diagnostics of Molecular Fluid Phase Behavior in Nanoporous Glasses. <i>Springer Series in Chemical Physics</i> , 2021, , 121-147.	0.2	0
33	Selective Stimulation in Laser-Induced Synthesis of Silver Nanoparticles in Nanoporous Glass. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta,)</i> Tj ETQq1 1 0.7843 14 rgBT /Overlock 10		0