

Alexander Kouzov

List of Publications by Year in descending order

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41
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#	ARTICLE	IF	CITATIONS
1	Pressure effects on N_2 rototranslational Raman spectra predicted from leading spectral moments. Journal of Raman Spectroscopy, 2020, 51, 2053-2060.	1.2	1
2	Non-empirical calculations of rotovibrational band wings: Carbon dioxide rare gas mixtures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 247, 106950.	1.1	2
3	Leading spectral moments for easy computation of pressure effects on rotational lines. Journal of Raman Spectroscopy, 2020, 51, 1390-1394.	1.2	1
4	A ρ -Dipole-Induced Dipole-Quantum Model and the Effect of an Inert Environment on the Intensity of Infrared Absorption. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2019, 127, 212-217.	0.2	0
5	Non-Markovian rotational relaxation matrix for fast collisions between two linear molecules in high-pressure gaseous media. I. General formalism and preliminary testing. Journal of Chemical Physics, 2018, 149, 044305.	1.2	5
6	Line space theory of Resonant Four-Wave Mixing: New prospects for all-optical studies of photofragment states. Chemical Physics Letters, 2017, 673, 103-107.	1.2	0
7	Effect of stable and metastable dimers on collision-induced rototranslational spectra: Carbon dioxide rare gas mixtures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 196, 87-93.	1.1	15
8	Origin of abnormally sharp features in collision-induced spectra of cryosolutions. Journal of Chemical Physics, 2015, 143, 044508.	1.2	2
9	Line-space description of resonant four-wave mixing: Theory for isotropic molecular states. Journal of Chemical Physics, 2014, 140, 194302.	1.2	4
10	Polarization and time-resolved DFWM spectroscopy of the A_2^+ $X(0,0)$ band transitions of nascent OH radicals generated by 266 nm laser photolysis of H_2O . Journal of Raman Spectroscopy, 2013, 44, 1349-1355.	1.2	9
11	Raman line shape studies of hydrogen cryosolutions. Journal of Physics: Conference Series, 2012, 397, 012058.	0.3	0
12	Concentration studies of collision-induced fundamental absorption of hydrogen dissolved in liquid neon. Journal of Chemical Physics, 2012, 137, 084509.	1.2	5
13	The isotropic spectrum of the CO ₂ Raman $2\hat{1}/23$ overtone: A line-mixing band shape analysis at pressures up to several tens of atmospheres. Journal of Chemical Physics, 2011, 134, 224301.	1.2	4
14	Are asymmetric stretch Raman spectra by centrosymmetric molecules depolarized?: The $2\hat{1}/23$ overtone of CO ₂ . Journal of Chemical Physics, 2011, 134, 044318.	1.2	9
15	The isotropic remnant of the CO ₂ near-fully depolarized Raman $2\hat{1}/23$ overtone. Journal of Chemical Physics, 2011, 134, 104310.	1.2	12
16	The depolarized Raman $2\hat{1}/23$ overtone of CO ₂ : A line-mixing shape analysis. Journal of Chemical Physics, 2011, 134, 194305.	1.2	6
17	Double Raman Scattering In Gas Mixtures. , 2010, , . Double vibrational collision-induced Raman scattering by SF ₆		0
18	$\frac{d^2 I}{d\omega^2 d\Omega} \propto N$	1.0	7

#	ARTICLE	IF	CITATIONS
19	Evidence for double incoherent Raman scattering in binary gas mixtures: SF_6 and N_2 . <i>Physical Review A</i> , 2010, 81, .	1.0	10
20	State- and time-resolved rotational relaxation signatures in two-color resonant four-wave mixing spectra. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 847-852.	1.2	7
21	Collision-induced absorption by the far infrared: Analysis of leading-order moments and interpretation of the experiment. <i>Physical Review A</i> , 2009, 80, .	1.0	16
22	Exact Low-Order Classical Moments in Collision-Induced Bands by Linear Rotors: CO_2 . <i>Physical Review Letters</i> , 2008, 100, 133007.	2.9	33
23	Two-Color Resonant Four-Wave Mixing Spectroscopy: New Perspectives for Direct Studies of Collisional State-to-State Transfer. , 2008, , .		0
24	Exact Low-Order Classical Moments in Collision-Induced Bands by Linear Rotors: CO_2 - CO_2 . , 2008, , .		0
25	New Line Narrowing Effects in the Infrared Collision-Induced Spectra of Molecular Hydrogens in Liquid Neon. <i>Physical Review Letters</i> , 2008, 101, 093001.	2.9	9
26	Intermolecular Raman spectroscopy of long-range interactions: The collision-induced $^{13}CO_2$ band. <i>Physical Review A</i> , 2007, 75, .	1.0	9
27	Collision-induced spectroscopy with long-range intermolecular interactions: A diagrammatic representation and the invariant form of the induced properties. <i>Physical Review A</i> , 2006, 74, .	1.0	10
28	Refined theory of two-photon processes accounting for virtual electric quadrupole and magnetic dipole transitions. <i>Journal of Raman Spectroscopy</i> , 2005, 36, 153-157.	1.2	2
29	Collision-Induced Absorption of Hydrogen Deuteride Dissolved in Liquid Neon. <i>Physical Review Letters</i> , 2004, 92, 023002.	2.9	7
30	Non-linear intermolecular polarization and collision-induced Raman transition by gaseous CO_2 in mixture with argon. <i>Journal of Raman Spectroscopy</i> , 2003, 34, 965-971.	1.2	5
31	Density evolution of the picosecond time-domain CARS responses from carbon dioxide gas. <i>Journal of Raman Spectroscopy</i> , 2003, 34, 983-988.	1.2	13
32	Two-color resonant four-wave mixing as a new tool to study state-to-state energy transfer. , 2002, , .		2
33	State-resolved collisional energy transfer of OH, NH and H_2CO by two-color resonant four-wave mixing spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2002, 33, 925-933.	1.2	11
34	Reconstruction of the Q band spectrum of the 1285-cm^{-1} transition in the CO_2 molecule from measurements of a pulsed response. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2002, 10, 10-15.	1.0	10
35	Novel non-linear optical techniques for diagnostics: laser-induced gratings and two-colour four-wave mixing. <i>Comptes Rendus Physique</i> , 2001, 2, 1001-1012.	0.1	4
36	Collision-induced resonances in two-color resonant four-wave mixing spectra. <i>Physical Review A</i> , 2000, 63, .	1.0	10

#	ARTICLE	IF	CITATIONS
37	On the form of rotational relaxation matrix in the infinite-order sudden approximation corrected for energy and frequency. , 1999, , .		0
38	Analysis of the impact shifts of vib-rotational lines of light rotators at high rotational quantum numbers. , 1997, , .		0
39	Energy-corrected sudden modeling of the non-Markovian rotational relaxation matrix for high-pressure Raman spectra of pure nitrogen. Journal of Raman Spectroscopy, 0, , .	1.2	0
40	Spectral Moments of Characteristics of Binary Interactions between Linear Molecules. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 0, , 1.	0.2	1
41	Dynamic induction of satellite lines in rotational Raman spectra of liquid hydrogen. Molecular Physics, 0, , .	0.8	0