

# Vadim A Alekseev

## List of Publications by Year in descending order

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44  
papers

382  
citations

759233

12  
h-index

888059

17  
g-index

44  
all docs

44  
docs citations

44  
times ranked

275  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic transition dipole moment function of the $f^1 0^+ (1D_2) \rightarrow X^1\Sigma^+$ transition of ICl. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 277, 107992.	2.3	2
2	Satellite Transition of the Resonance Doublet of the Na Atom in a Mixture with CF <sub>4</sub> . JETP Letters, 2021, 114, 65-70.	1.4	1
3	Ab Initio Study of Ion-Pair States of Halogen Molecules. Russian Journal of Physical Chemistry A, 2020, 94, 1382-1395.	0.6	3
4	Mechanism of the Three-Photon Population of Ion-Pair States of Iodine via Valence States Near the I <sup>2</sup> P <sub>1/2</sub> + I <sup>2</sup> P <sub>1/2</sub> Dissociation Limit. Russian Journal of Physical Chemistry A, 2018, 92, 1508-1515.	0.6	0
5	Stimulated directional emission induced by two-photon excitation of the Xe 6p <sup>2</sup> and Xe 7p states. Journal of Chemical Physics, 2017, 146, 094304.	3.0	1
6	Blue line wings of resonance lines of potassium and sodium perturbed by molecular hydrogen and rare gases. Journal of Physics: Conference Series, 2017, 810, 012023.	0.4	2
7	Chemistry of the oldest white dwarf planetary systems. Proceedings of the International Astronomical Union, 2017, 13, 202-209.	0.0	0
8	Theoretical profiles of the Mg <sup>+</sup> resonance lines perturbed by collisions with He. Astronomy and Astrophysics, 2016, 593, A13.	5.1	11
9	Photoionisation study of Xe.CF <sub>4</sub> and Kr.CF <sub>4</sub> van-der-Waals molecules. Journal of Chemical Physics, 2016, 144, 184305.	3.0	1
10	An ab initio study of ion-pair states of the Br <sub>2</sub> molecule. Optics and Spectroscopy (English Translation) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.6	5
11	Ionization of Kr.CF <sub>4</sub> and Xe.CF <sub>4</sub> van der Waals clusters: from face to vertex geometry. Journal of Physics: Conference Series, 2015, 635, 112056.	0.4	0
12	Luminescence of ion-pair I <sub>2</sub> (D <sup>2</sup> ) state in cryogenic perfluorocarbons and SF <sub>6</sub> solids. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 035301.	1.5	2
13	Ab initio study of rare gas halides. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 105101.	1.5	5
14	Collisional profiles of ionized calcium perturbed by helium. Advances in Space Research, 2014, 54, 1248-1253.	2.6	17
15	Ab initio study of ion-pair states of I <sub>2</sub> molecule. Optics and Spectroscopy (English Translation of) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.6	12
16	Study of absorption on the wings of sodium resonance line perturbed by molecular hydrogen. Journal of Physics: Conference Series, 2012, 397, 012039.	0.4	0
17	Broadening of the H <sub>2</sub> (X <sup>1</sup> B) transition lines in mixtures with rare gases and CF <sub>4</sub> . Journal of Physics: Conference Series, 2012, 397, 012043.	0.4	0
18	Luminescence of Ion-Pair States of Halogens in Liquid Perfluorocarbons.. Journal of Physical Chemistry A, 2012, 116, 1333-1336.	2.5	1

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19	Satellites of Xe transitions induced by infrared active vibrational modes of CF <sub>4</sub> and C <sub>2</sub> F <sub>6</sub> molecules. Journal of Chemical Physics, 2011, 135, 044313.	3.0	5
20	On mechanism of population transfer to ungerade ion-pair states of I <sub>2</sub> molecule. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2011, 110, 335-339.	0.6	1
21	Quasimolecular Absorption Of Xe+He And Kr+He Collision Pairs. , 2010, , .		1
22	Absorption and luminescence excitation spectra of ClF in the Vac UV region. Chemical Physics Letters, 2010, 495, 24-26.	2.6	1
23	Vibrational satellite of Na(3d <sup>1</sup> 3s) dipole-forbidden transition in Na/CF <sub>4</sub> mixture. Chemical Physics Letters, 2008, 463, 47-49.	2.6	5
24	Satellites Of Atomic Transitions Induced By IR Active Vibrational Modes In Molecules.. , 2008, , .		1
25	The [sup 1]S[sub 0]â†[sup 3,1]P[sub 1] Transitions In Xe And Kr Atoms Perturbed By CF[sub 4] And C[sub 2]F[sub 6]. , 2008, , .		2
26	Simultaneous optical excitation of Na electronic and CF <sub>4</sub> vibrational modes in Na+CF <sub>4</sub> collisions. Journal of Chemical Physics, 2008, 129, 201102.	3.0	5
27	Characterization of a shallow-bound O <sub>g</sub> + valence state of I <sub>2</sub> using emission from the D <sup>0</sup> <sub>u</sub> +(3P <sub>2</sub> ) and F <sup>2</sup> <sub>u</sub> +(1D <sub>2</sub> ) ion-pair states populated by amplified spontaneous emission. Physical Chemistry Chemical Physics, 2007, 9, 5885.	2.8	14
28	Vibrational satellites of dipole-forbidden transitions in Xe/CF <sub>4</sub> mixtures. Chemical Physics Letters, 2007, 436, 327-330.	2.6	5
29	Evidence for amplified spontaneous emission from the $\langle \text{mml:math altimg="si12.gif" display="inline"} \rangle$ overflow= scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/table-struct/dtd" data-bbox="80 550 980 615">	2.6	17
30	Some aspects of the kinetics of formation of triatomic halogenides of rare gases. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2006, 100, 178-187.	0.6	3
31	Ion-Pair States of I[sub 2], Br[sub 2], IBr, and ICl. Optics and Spectroscopy (English Translation of) Tj ETQq1 1 0.784314 rgBT /Overlo	0.6	12
32	Vacuum ultraviolet absorption in Xe+CF <sub>4</sub> and Kr+CF <sub>4</sub> mixtures. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	2
33	Homogeneous interaction of ion-pair states of ClF. Optics and Spectroscopy (English Translation of) Tj ETQq1 1 0.784314 rgBT /Overbo	0.6	4
34	Amplified spontaneous emission and its application for population of resonant states of the Xe and Kr atoms. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2002, 93, 334-339.	0.6	16
35	Nonadiabatic effects in the lowest O <sup>+</sup> (3P) ion-pair states of ClF. Journal of Chemical Physics, 2001, 114, 3003-3009.	3.0	6
36	The D <sup>2</sup> â† A <sup>2</sup> Transition in ClF. Journal of Molecular Spectroscopy, 1999, 194, 61-72.	1.2	15

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37	The $A(3\hat{1})$ State of ClF. Journal of Molecular Spectroscopy, 1999, 195, 162-171.	1.2	17
38	A Pulsed Source for Kr( $5s[3/2]1$ ) Resonance State Atoms Using Two-Photon-Driven Amplified Spontaneous Emission: Measurement of Quenching Rate Constants. Journal of Physical Chemistry A, 1999, 103, 4016-4025.	2.5	17
39	Generation and Kinetic Studies of Xe( $5d[3/2]1$ ) Resonance State Atoms. Journal of Physical Chemistry A, 1999, 103, 8396-8403.	2.5	23
40	Analysis of the bound-free emission spectra from the $E(0+)$ and $f(0+)$ ion-pair states of ClF to obtain potentials for the ion-pair and repulsive valence states. Journal of Chemical Physics, 1998, 109, 1763-1771.	3.0	7
41	Optical-optical double-resonance spectroscopic study of four ion-pair states of ClF and identification of the $ClF(A\hat{3}\hat{1})$ valence state. Journal of Chemical Physics, 1997, 107, 4771-4782.	3.0	20
42	A pulsed source for Xe( $6s[3/2]1$ ) and Xe( $6s\hat{2}[1/2]1$ ) resonance state atoms using two-photon driven amplified spontaneous emission from the Xe( $6p$ ) and Xe( $6p\hat{2}$ ) states. Journal of Chemical Physics, 1996, 105, 4613-4625.	3.0	27
43	Quenching Rate Constants and Product Assignments for Reactions of Xe( $7p[3/2]2$ , $7p[5/2]2$ , and) Tj ETQq1 1 0.784314 rgBT /Overlock Physical Chemistry, 1996, 100, 5766-5780.	2.9	39
44	Cool DZ white dwarfs I: Identification and spectral analysis. Monthly Notices of the Royal Astronomical Society, 0, , stx250.	4.4	54