JarosÅ‚aw Koperski

List of Publications by Year
in descending order

72	1,033	516710 16	501196 28
papers	citations	h-index	g-index

75	75	75	222
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rotational characterization of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si70.svg"><mml:mrow><mml:msup><mml:mrow><mml:mi>E</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msup><mml:mrow><mml:mi mathvariant="normal">Î£</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:mrow><mml:mo>+</mml:mo></mml:mrow></mml:math> Rydberg state of CdNe van der Waals complex via selective J-excitation in OODR process. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 264, 120248.	3.9	1
2	Rydberg states of ZnAr complex. Molecular Physics, 2022, 120, .	1.7	2
3	Observation of gerade Rydberg state of Cd2 van der Waals complex cooled in free-jet expansion beam and excited using optical-optical double resonance method. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 253, 119500.	3.9	0
4	Ro-vibrational cooling of diatomic molecules Cd2 and Yb2: rotational energy structure included. Molecular Physics, 2020, 118, e1694712.	1.7	0
5	Boundâ†'free and boundâ†'bound multichannel emission spectra from selectively excited Rydberg states in the ZnAr and CdAr van der Waals complexes. Journal of Molecular Structure, 2020, 1222, 128840.	3.6	5
6	Genetic Algorithm for quick finding of diatomic molecule potential parameters. Molecular Simulation, 2020, 46, 1073-1083.	2.0	2
7	Spectroscopy of CdKr van der Waals complex using OODR process: New determination of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si113.svg"><mml:mrow><mml:msup><mml:mrow><mml:mi>E</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msup><mml:mrow><mml:mi mathvariant="normal">Î£</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:mrow><mml:mo>+</mml:mo></mml:mrow></mml:math>		

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19	The E3Î£+(63S1)-state interatomic potential of CdAr in the long range region revisited: A new method for bond length adjustment. Chemical Physics Letters, 2015, 640, 82-86.	2.6	8
20	Interatomic potentials of the heavy van der Waals dimer Hg 2 : A â€œtest-bedâ€•for theory-to-experiment agreement. Physics Reports, 2015, 591, 1-31.	25.6	11
21	Freeâ†bound and boundâ†bound profiles in excitation spectra of the B31â†X10+ transition in CdNg (Ng=noble) Tj ETQq1 1 0.784314 rg	1.9	13
22	Profiles of (Ï…â€²;Ï…â€³ = 0) bands recorded in excitation spectra using b30+u â†•X10g+ transitions in Cd2 and B31â€‰â†â€‰X10+ transitions in CdAr. Molecular Physics, 2014, 112, 2486-2494.	1.7	13
23	Rotational profiles of vibrational bands recorded at the B31(53P1) â†•X10+(51S0) transition in CdAr complex. Chemical Physics Letters, 2014, 591, 64-68.	2.6	13
24	Pulsed supersonic source of vdW complexes for high-temperature applications: Spectroscopy and beam characteristics. European Physical Journal: Special Topics, 2013, 222, 2187-2195.	2.6	5
25	High-temperature high-pressure all-metal pulsed source of van der Waals dimers: Towards the Einstein-Podolsky-Rosen experiment. Review of Scientific Instruments, 2012, 83, 083114.	1.3	12
26	Potentials of the D10u+(61S0) and F31u(63P2) Electronic Rydberg States of Cd2from ab Initio Calculations and Laser-Induced Fluorescence Excitation Spectra. Journal of Physical Chemistry A, 2011, 115, 6851-6860.	2.5	7
27	rotational bands of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msup><mml:mrow><mml:mtext>E</mml:mtext></mml:mrow><mml:mrow><mml:mn>3</mml:mn mathvariant="normal">Î£</mml:mi></mml:mrow><mml:mrow><mml:mo>+</mml:mo></mml:mrow></mml:msup><mml:mo		

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37	Is Cd2 truly a van der Waals molecule? Analysis of rotational profiles recorded at the , transitions. Chemical Physics, 2007, 340, 171-180.	1.9	18
38	Spectroscopy of the 11u(51P1) and singlet electronic states of cadmium dimer: Bond lengths and verification of ab initio potentials. Journal of Molecular Spectroscopy, 2007, 243, 134-141.	1.2	8
39	Interatomic potential parameters of CdHe van der Waals complex derived from excitation spectrum of the C11(51P1)â†X10+(51S0) vibrational transition. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2007, 67, 730-736.	3.9	4
40	Group-12 vdW dimers in free-jet supersonic beams: The legacy of Eugeniusz Czuchaj continues. European Physical Journal: Special Topics, 2007, 144, 107-114.	2.6	6
41	Molecules in the cold environment of a supersonic free-jet beam: from spectroscopy of neutralâ€“neutral interactions to a test of Bell's inequality. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S1125-S1150.	1.5	16
42	The -state potentials of Zn2 obtained from excitation spectrum recorded at the transition. Chemical Physics, 2006, 327, 229-236.	1.9	17
43	Evidence of a weak dipole transition moment between the and 31u(53P1) electronic energy states in Cd2. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 1835-1840.	3.9	8
44	Short-range repulsion in the D10+(1Î£+)-state potential of the CdRG (RG=Ar, Kr) molecules determined from a direct continuumâ†bound excitation detected at the D10+â†X10+(1Î£+) transition. Chemical Physics Letters, 2005, 416, 147-151.	2.6	12
45	Electronic structure of the CdKr lowest Rydberg state determined from laser-excitation spectra using supersonic beam and double optical resonance methods. Physical Review A, 2004, 69, .	2.5	14
46	Nuclear-spin intensity alternation and rotational-levels symmetry properties in isotopically-resolved excitation spectrum of Cd2. Chemical Physics Letters, 2004, 384, 317-319.	2.6	8
47	The structure of the lowest electronic Rydberg state of CdAr complex determined by laser double resonance method in a supersonic jet-expansion beam. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 2435-2448.	3.9	14
48	Structure of excitation and fluorescence spectra recorded at the1Ou+(51P1)â€“X1Og+transition ofCd2. Physical Review A, 2003, 68, .	2.5	24
49	Short-Range Characterization of the MeAr (Me=Zn, Cd) Ground-State Potentials from Fluorescence Spectra. Journal of Molecular Spectroscopy, 2002, 212, 162-170.	1.2	23
50	Laser excitation spectrum and spectroscopic potential parameters of Cd2 molecule in the 1u(53P2) energy state. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2002, 58, 927-932.	3.9	15
51	Double-well potential energy curve of cadmiumâ€“krypton molecule in the B1(53P1) excited state. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2002, 58, 1757-1767.	3.9	16
52	Laser spectroscopy of CdKr molecules in ultraviolet region. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2002, 58, 2709-2724.	3.9	23
53	Study of diatomic van der Waals complexes in supersonic beams. Physics Reports, 2002, 369, 177-326.	25.6	97
54	Spectroscopical characterization of CdNe van der Waals complex in the E1(3Î£+) Rydberg state. Chemical Physics Letters, 2002, 357, 119-125.	2.6	14

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55	Absorption and fluorescence laser spectroscopy of CdKr molecule in ultraviolet region. AIP Conference Proceedings, 2001, , .	0.4	1
56	Determination of Interatomic Potentials for the X0+, A0+, and B1 States of HgKr from Fluorescence and Excitation Spectra. Journal of Molecular Spectroscopy, 2001, 207, 172-188.	1.2	9
57	Interatomic potential parameters of CdHe van der Waals complex in the A30+,B31 and X10+ states â€“ revisited. Chemical Physics Letters, 2001, 350, 367-371.	2.6	15
58	Interatomic potentials of cadmium-argon B1(3 Î£ +) and X0 + (1 Î£ +) states based on near-dissociation expansion and â€˜hotâ€™ bands observed in the B1â†X0 + excitation spectrum. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2000, 56, 1613-1626.	3.9	30
59	Improved spectroscopic characterisation of the ground. European Physical Journal D, 2000, 10, 363.	1.3	27
60	Spectroscopic characterization of the ZnNe van der Waals molecule in theX0+(41S0)andD1(41P1)energy states. Physical Review A, 2000, 62, .	2.5	21
61	The Cd2 and Zn2 van der Waals dimers revisited. Correction for some molecular potential parameters. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1999, 55, 2221-2229.	3.9	76
62	First Observations of Laser-Excited Hg3and Hg2RG Spectra in a Supersonic Expansion Beam. Journal of Molecular Spectroscopy, 1998, 187, 181-192.	1.2	12
63	Excitation spectrum of the A0+(5â€‰3P1), B1(5â€‰3P1)â†X0+(5â€‰1S0) transitions in the CdHe van der Waals molecule: Spectroscopic characterization of the X0+, A0+, and B1 electronic energy states. Journal of Chemical Physics, 1998, 109, 459-465.	3.0	26
64	Potential energy curve of the XO+(1â^+) ground state of HgAr determined from (II) â†' 1(â^) â†' fluorescence spectra (Chemical Physics 211 (1996) 191â€“201). Chemical Physics, 1997, 214, 431-432.	1.9	9
65	TheG0u+(61P1)â€“X0G+Excitation and Fluorescence Spectra of Hg2Excited in a Supersonic Jet. Journal of Molecular Spectroscopy, 1997, 184, 300-308.	1.2	40
66	Potential energy curve of the ground state of HgAr determined from fluorescence spectra. Chemical Physics, 1996, 211, 191-201.	1.9	15
67	Longâ€range potential of B1(3Î£+) state based on a nearâ€dissociation expansion of the mercuryâ€“argon molecules. Journal of Chemical Physics, 1996, 105, 4920-4922.	3.0	12
68	Molecular beam spectroscopy of the and transitions in Hg₂. Canadian Journal of Physics, 1994, 72, 1070-1077.	1.1	45
69	The 0+u(6 3P1)â†X0+g spectrum of Hg2 excited in a supersonic jet. Chemical Physics Letters, 1994, 219, 161-168.	2.6	72
70	Spectroscopy of the A0+ and B1 states in HgAr and HgNe. Chemical Physics, 1994, 186, 401-407.	1.9	28
71	Deep neural network for fitting analytical potential energy curve of diatomic molecules from ro-vibrational spectra. Molecular Simulation, 0, , 1-9.	2.0	1
72	Opticalâ€“optical double resonance process in free-jet supersonic expansion of van der Waals molecules: characteristics of the expansion, number of excited molecules and emitted photons. Molecular Physics, 0, , .	1.7	1