

# Semen Mikhailenko

## List of Publications by Year in descending order

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7673  
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| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | The HITRAN 2008 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 533-572.   | 2.3 | 3,129     |
| 2  | The HITRAN2016 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 203, 3-69.   | 2.3 | 2,840     |
| 3  | The HITRAN2012 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 4-50.   | 2.3 | 2,810     |
| 4  | The HITRAN2020 molecular spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 277, 107949.   | 2.3 | 770       |
| 5  | The 2015 edition of the GEISA spectroscopic database. Journal of Molecular Spectroscopy, 2016, 327, 31-72.   | 1.2 | 311       |
| 6  | The 2009 edition of the GEISA spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 2395-2445.   | 2.3 | 306       |
| 7  | The 1997 spectroscopic GEISA databank. Journal of Quantitative Spectroscopy and Radiative Transfer, 1999, 62, 205-254.   | 2.3 | 237       |
| 8  | IUPAC critical evaluation of the rotational-vibrational spectra of water vapor. Part I Energy levels and transition wavenumbers for H <sub>2</sub> O and H <sub>2</sub> <sup>18</sup> O. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 573-596.                            | 2.3 | 188       |
| 9  | IUPAC critical evaluation of the rotational-vibrational spectra of water vapor. Part II. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 2160-2184.  | 2.3 | 178       |
| 10 | The GEISA spectroscopic database: Current and future archive for Earth and planetary atmosphere studies. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 1043-1059.  | 2.3 | 161       |
| 11 | High sensitivity CW-cavity ring down spectroscopy of water in the region of the 1.5 $\mu$ m atmospheric window. Journal of Molecular Spectroscopy, 2004, 227, 90-108.  | 1.2 | 151       |
| 12 | The 2003 edition of the GEISA/IASI spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 95, 429-467.   | 2.3 | 146       |
| 13 | Fourier transform measurements of water vapor line parameters in the 4200-6600 $\text{cm}^{-1}$ region. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 105, 326-355.   | 2.3 | 117       |
| 14 | GOSAT-2009 methane spectral line list in the 5550-6236 $\text{cm}^{-1}$ range. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 2211-2224.  | 2.3 | 79        |
| 15 | Water Spectra in the Region 4200-6250 $\text{cm}^{-1}$ , Extended Analysis of $\nu_1 + \nu_2$ , $\nu_2 + \nu_3$ , and $3\nu_2$ Bands and Confirmation of Highly Excited States from Flame Spectra and from Atmospheric Long-Path Observations. Journal of Molecular Spectroscopy, 2002, 213, 91-121. | 1.2 | 68        |
| 16 | Weak water absorption lines around 1.455 and 1.66 $\mu$ m by CW-CRDS. Journal of Molecular Spectroscopy, 2007, 244, 170-178.   | 1.2 | 67        |
| 17 | S&MPO - An information system for ozone spectroscopy on the WEB. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 145, 169-196.  | 2.3 | 66        |
| 18 | Ozone spectroscopy in the electronic ground state: High-resolution spectra analyses and update of line parameters since 2003. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 172-190.   | 2.3 | 63        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Rotational levels of the (000) and (010) states of D <sub>2</sub> 16O from hot emission spectra in the 320–860 cm <sup>-1</sup> region. Journal of Molecular Spectroscopy, 2004, 224, 32-60.  | 1.2 | 50        |
| 20 | Seven years of IASI ozone retrievals from FORLI: validation with independent total column and vertical profile measurements. Atmospheric Measurement Techniques, 2016, 9, 4327-4353.  | 3.1 | 50        |
| 21 | GOSAT-2014 methane spectral line list. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 154, 63-71.   | 2.3 | 48        |
| 22 | Line Positions and Intensities of the $\hat{1}/2_1 + \hat{1}/2_2 + 3\hat{1}/2_3$ , $\hat{1}/2_2 + 4\hat{1}/2_3$ , and $3\hat{1}/2_1 + 2\hat{1}/2_2$ Bands of Ozone. Journal of Molecular Spectroscopy, 1996, 180, 227-235.                                    | 1.2 | 44        |
| 23 | The absorption spectrum of water in the 1.25–1.4 $\mu$ m transparency window (7408–7920 cm <sup>-1</sup> ). Journal of Molecular Spectroscopy, 2011, 269, 92-103.   | 1.2 | 43        |
| 24 | Absorption spectrum of deuterated water vapor enriched by 18O between 6000 and 9200 cm <sup>-1</sup> . Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 653-669.   | 2.3 | 43        |
| 25 | Analysis of the $2\hat{1}/2_1 + 2\hat{1}/2_2 + \hat{1}/2_3$ Band of Ozone. Journal of Molecular Spectroscopy, 1995, 171, 583-588.   | 1.2 | 41        |
| 26 | (000) and (010) States of : analysis of rotational transitions in hot emission spectrum in the region. Journal of Molecular Spectroscopy, 2003, 217, 195-211.   | 1.2 | 37        |
| 27 | Isotopic substitution shifts in methane and vibrational band assignment in the 5560–6200 cm <sup>-1</sup> region. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 964-973.  | 2.3 | 37        |
| 28 | Comb-assisted cavity ring down spectroscopy of 17O enriched water between 7443 and 7921 cm <sup>-1</sup> . Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 203, 206-212.   | 2.3 | 37        |
| 29 | <i>Ab initio</i> predictions and laboratory validation for consistent ozone intensities in the MW, 10 and 5 $\mu$ m ranges. Journal of Chemical Physics, 2019, 150, 184303.   | 3.0 | 37        |
| 30 | CRDS of water vapor at 0.1 Torr between 6886 and 7406 cm <sup>-1</sup> . Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 2155-2166.   | 2.3 | 36        |
| 31 | Analysis of the first triad of interacting states (020), (100), and (001) of D <sub>2</sub> 16O from hot emission spectra. Journal of Molecular Spectroscopy, 2005, 233, 32-59.   | 1.2 | 35        |
| 32 | Global Multi-isotopologue fit of measured rotation and vibration–rotation line positions of CO in X1 $\Sigma^+$ state and new set of mass-independent Dunham coefficients. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1643-1655. | 2.3 | 35        |
| 33 | Water vapor line parameters from 6450 to 9400 cm <sup>-1</sup> . Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 136, 119-136.   | 2.3 | 34        |
| 34 | An improved line list for water vapor in the 1.5 $\mu$ m transparency window by highly sensitive CRDS between 5852 and 6607 cm <sup>-1</sup> . Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 69-80.                                 | 2.3 | 33        |
| 35 | Experimental and theoretical study of absolute intensities of ozone spectral lines in the range 1850–2300 cm <sup>-1</sup> . Journal of Quantitative Spectroscopy and Radiative Transfer, 1994, 52, 341-355.  | 2.3 | 32        |
| 36 | Line Positions and Intensities of the $\hat{1}/2_1 + 2\hat{1}/2_2 + \hat{1}/2_3$ and $2\hat{1}/2_2 + 2\hat{1}/2_3$ Bands of 16O <sub>3</sub> . Journal of Molecular Spectroscopy, 1994, 166, 365-371.   | 1.2 | 32        |

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|----|---|-----|-----------|
| 37 | The $2\frac{1}{2}2$ Band of Water: Analysis of New FTS Measurements and High-Ka Transitions and Energy Levels. Journal of Molecular Spectroscopy, 1997, 184, 330-349.   | 1.2 | 32        |
| 38 | Critical evaluation of measured rotation-vibration transitions and an experimental dataset of energy levels of HD18O. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 597-608.  | 2.3 | 30        |
| 39 | Analysis of the $2\frac{1}{2}1 + \frac{1}{2}2 + 2\frac{1}{2}3$ Band of Ozone. Journal of Molecular Spectroscopy, 1997, 182, 333-341.  | 1.2 | 28        |
| 40 | Infrared Spectrum of Ozone in the 4600 and 5300 $\text{cm}^{-1}$ Regions: High Order Accidental Resonances through the Analysis of $\frac{1}{2}1 + 2\frac{1}{2}2 + 3\frac{1}{2}3$ , $\frac{1}{2}2, \frac{1}{2}1 + 2\frac{1}{2}2 + 3\frac{1}{2}3$ , and $4\frac{1}{2}1 + \frac{1}{2}3$ Bands. Journal of Molecular Spectroscopy, 1997, 185, 408-416. | 1.2 | 27        |
| 41 | The $\frac{1}{2}1 + \frac{1}{2}2 + 2\frac{1}{2}3$ and $\frac{1}{2}2 + 3\frac{1}{2}3$ Bands of $^{16}\text{O}_3$ . Journal of Molecular Spectroscopy, 1995, 174, 510-519.  | 1.2 | 26        |
| 42 | Calculation of High Rotation Energies of the Water Molecule Using the Generating Function Model. Journal of Molecular Spectroscopy, 1995, 170, 38-58.   | 1.2 | 26        |
| 43 | Critical evaluation of measured pure-rotation and rotation-vibration line positions and an experimental dataset of energy levels of $^{12}\text{C}^{16}\text{O}$ in $X1\frac{1}{2}+$ state. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 1106-1116.  | 2.3 | 26        |
| 44 | A spectroscopic database for water vapor between 5850 and 8340 $\text{cm}^{-1}$ . Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 179, 198-216.  | 2.3 | 26        |
| 45 | Analysis of high resolution measurements of the $2\frac{1}{2}1 + 3\frac{1}{2}3$ band of ozone: Coriolis interaction with the $\frac{1}{2}1 + 3\frac{1}{2}2 + 2\frac{1}{2}3$ band. Journal of Quantitative Spectroscopy and Radiative Transfer, 1998, 59, 185-194.   | 2.3 | 25        |
| 46 | The absorption spectrum of water vapor in the 1.25-1.4 $\mu\text{m}$ atmospheric window (7911-8337 $\text{cm}^{-1}$ ). Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 157, 135-152.   | 2.3 | 25        |
| 47 | Extended Analysis of Line Positions and Intensities of Ozone Bands in the 2900-3400 $\text{cm}^{-1}$ Region. Journal of Molecular Spectroscopy, 2002, 215, 29-41.   | 1.2 | 24        |
| 48 | Spectroscopic parameters for ozone and its isotopes: recent measurements, outstanding issues, and prospects for improvements to HITRAN. Journal of Quantitative Spectroscopy and Radiative Transfer, 2003, 82, 207-218.   | 2.3 | 24        |
| 49 | Comb-Assisted Cavity Ring Down Spectroscopy of $^{17}\text{O}$ enriched water between 6667 and 7443 $\text{cm}^{-1}$ . Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 206, 163-171.   | 2.3 | 24        |
| 50 | New Analysis of $2\frac{1}{2}1 + \frac{1}{2}2, \frac{1}{2}1 + \frac{1}{2}2 + \frac{1}{2}3$ , and $\frac{1}{2}2 + 2\frac{1}{2}3$ Bands of Ozone in the 2600-2900 $\text{cm}^{-1}$ Region. Journal of Molecular Spectroscopy, 1999, 196, 93-101.  | 1.2 | 23        |
| 51 | (000) and (010) energy levels of the HD18O and molecules from analysis of their $\frac{1}{2}2$ bands. Journal of Molecular Spectroscopy, 2011, 265, 26-38.  | 1.2 | 23        |
| 52 | The $2\frac{1}{2}2$ and $3\frac{1}{2}2 \sim \frac{1}{2}2$ bands of ozone. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1998, 54, 1935-1945.   | 3.9 | 22        |
| 53 | ICLAS of water in the 770nm transparency window (12746-13558 $\text{cm}^{-1}$ ). Comparison with current experimental and calculated databases. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 2832-2845.  | 2.3 | 21        |
| 54 | Infrared high-resolution spectra of ozone in the range 5500-: analysis of and bands. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 2559-2569.  | 1.5 | 20        |

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|----|---|-----|-----------|
| 55 | An accurate and complete empirical line list for water vapor between 5850 and 7920 cm <sup>-1</sup> . Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 140, 48-57.  | 2.3 | 20        |
| 56 | Water vapor absorption line intensities in the 1900–6600 cm <sup>-1</sup> region. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 2687-2696.  | 2.3 | 18        |
| 57 | Fourier transform measurements of H <sub>2</sub> O and HD <sub>2</sub> O in the spectral range 1000–2300 cm <sup>-1</sup> . Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 859-869.  | 2.3 | 18        |
| 58 | Water vapor absorption in the region of the oxygen A-band near 760 nm. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 275, 107847.  | 2.3 | 17        |
| 59 | High resolution infrared spectrum of <sup>16</sup> O <sub>3</sub> : The 3600–4300 cm <sup>-1</sup> range reinvestigated. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 244, 106823.  | 2.3 | 16        |
| 60 | Line positions and energy levels of the <sup>18</sup> O substitutions from the HDO/D <sub>2</sub> O spectra between 5600 and 8800 cm <sup>-1</sup> . Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 2185-2196.   | 2.3 | 15        |
| 61 | First Observation of the v <sub>2</sub> = 3 State of Ozone: The (131) State Through Analysis of Cold and Hot Bands. Journal of Molecular Spectroscopy, 1997, 184, 448-453.  | 1.2 | 14        |
| 62 | Water vapor absorption between 5690 and 8340 cm <sup>-1</sup> : Accurate empirical line centers and validation tests of calculated line intensities. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 245, 106840.  | 2.3 | 14        |
| 63 | Towards the intensity consistency of the ozone bands in the infrared range: Ab initio corrections to the S&MPO database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 272, 107801.  | 2.3 | 14        |
| 64 | CRDS of <sup>17</sup> O enriched water between 5850 and 6671 cm <sup>-1</sup> : More than 1000 energy levels of H <sub>2</sub> <sup>17</sup> O and HD <sup>17</sup> O newly determined. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 177, 108-116.          | 2.3 | 13        |
| 65 | LED-based Fourier transform spectroscopy of H <sub>2</sub> O in the 15,000–16,000 cm <sup>-1</sup> range. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 156, 36-46.  | 2.3 | 12        |
| 66 | Cavity ring down spectroscopy of <sup>17</sup> O enriched water vapor near 1.73 μm. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 222-223, 229-235.  | 2.3 | 12        |
| 67 | Infrared spectra of <sup>16</sup> O <sub>3</sub> in the 900 - 5600 cm <sup>-1</sup> range revisited: Empirical corrections to the S&MPO and HITRAN2020 line lists. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 276, 107936.                                | 2.3 | 12        |
| 68 | First Study of the v <sub>2</sub> = 3 Dyad {(130), (031)} of Ozone through the Analysis of Hot Bands in the 2300–2600 cm <sup>-1</sup> Region. Journal of Molecular Spectroscopy, 1998, 187, 70-74.   | 1.2 | 11        |
| 69 | High resolution Fourier transform spectroscopy of HD <sub>16</sub> O: Line positions, absolute intensities and self broadening coefficients in the 8800–11,600 cm <sup>-1</sup> spectral region. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 878-888. | 2.3 | 11        |
| 70 | Study of H <sub>2</sub> <sup>16</sup> O and H <sub>2</sub> <sup>18</sup> O absorption in the 16,460–17,200 cm <sup>-1</sup> range using LED-based Fourier transform spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 170-177.                | 2.3 | 10        |
| 71 | High Resolution Infrared Spectroscopy in Support of Ozone Atmospheric Monitoring and Validation of the Potential Energy Function. Molecules, 2022, 27, 911.   | 3.8 | 10        |
| 72 | Analysis of experimental data for the first hexad {(040), (120), (200), (002), (021), (101)} of H <sub>2</sub> O molecule interacting states. Journal of Molecular Structure, 1998, 442, 39-53.   | 3.6 | 9         |

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|----|---|-----|-----------|
| 73 | Title is missing!. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 2141-2152.  | 1.5 | 9         |
| 74 | Hot water emission spectra: Rotational energy levels of the (000) and (010) states of HD17O. Journal of Molecular Spectroscopy, 2015, 308-309, 6-19.  | 1.2 | 9         |
| 75 | The absorption spectrum of water vapor in the 2.2 $\frac{1}{4}$ m transparency window: High sensitivity measurements and spectroscopic database. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 189, 407-416. | 2.3 | 9         |
| 76 | CRDS absorption spectrum of 17O enriched water vapor in the 12,277 $\hat{c}$ 12,894 $\hat{c}$ m $\hat{c}$ 1 range. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 221, 233-242.                               | 2.3 | 9         |
| 77 | New transitions and energy levels of water vapor by high sensitivity CRDS near 1.73 and 1.54 $\hat{c}$ $\hat{c}$ m. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 236, 106574.                               | 2.3 | 8         |
| 78 | Cavity ring down spectroscopy of water vapour near 750 $\hat{c}$ nm: a test of the HITRAN2020 and W2020 line lists. Molecular Physics, 2022, 120, .   | 1.7 | 8         |
| 79 | Effective dipole-moment operator for nonrigid H2X-type molecules. Application to H2O. Journal of Molecular Structure, 1992, 271, 119-131.   | 3.6 | 7         |
| 80 | New analysis of experimental data for the second hexad (050), (130), (210), (012), (031), (111) of H162O molecule interacting states. Journal of Molecular Structure, 1998, 449, 39-51.   | 3.6 | 7         |
| 81 | The absorption spectrum of water between 13540 and 14070 $\hat{c}$ m $\hat{c}$ 1: ICLAS detection of weak lines and a complete line list. Journal of Molecular Spectroscopy, 2011, 265, 106-109.                                  | 1.2 | 7         |
| 82 | The absorption spectrum of H2 18O in the range 13400 $\hat{c}$ 14460 $\hat{c}$ m $\hat{c}$ 1. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT /Overl  | 0.6 | 7         |
| 83 | LED-based Fourier-transform spectroscopy of H2 18O in the range 15000 $\hat{c}$ 15700 $\hat{c}$ m $\hat{c}$ 1. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2013, 115, 814-822.                      | 0.6 | 7         |
| 84 | Update of line parameters of ozone in the 2550-2900 $\hat{c}$ m $\hat{c}$ 1 region. Applied Optics, 2008, 47, 4612.   | 2.1 | 6         |
| 85 | RKR potentials of isotopologues of the CO molecule. Optics and Spectroscopy (English Translation of) Tj ETQq1 1 0,784314 rgBT /Ov   | 0.6 | 6         |
| 86 | Isotopically invariant dunham parameters and the potential function of the HCl molecule. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2002, 92, 871-876.   | 0.6 | 5         |
| 87 | The far-infrared spectrum of 18O enriched water vapour (40 $\hat{c}$ 700 $\hat{c}$ m $\hat{c}$ 1). Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107105.  | 2.3 | 5         |
| 88 | Validation tests of the W2020 energy levels of water vapor. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 276, 107914.   | 2.3 | 5         |
| 89 | Application of the pade-form hamiltonians for processing of vibration-rotation spectra of diatomic and triatomic molecules. Journal of Molecular Structure, 1990, 218, 291-296.   | 3.6 | 4         |
| 90 | Broadening and shifting of vibrational-rotational lines corresponding to the highly excited rotational states of the water molecule. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq0 0 0 rgBT /Overl           | 0.6 | 10        |

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|----|--|-----|-----------|
| 91 | Inventory of data included in HITRAN2012 edition for water vapor between 6450 and 9400 cm <sup>-1</sup> . Journal of Molecular Spectroscopy, 2016, 327, 159-170.   | 1.2 | 4         |
| 92 | New measurements and analysis of the high-resolution water vapor spectrum in the region of $\nu_1$ , $\nu_3$ , and $2\nu_2$ bands. , 1994, 2205, 264.  |     | 2         |
| 93 | <title>Analysis of (030),(110), and (011) interacting states of $D_2^{16}O$ from hot temperature emission spectra</title>. , 2006, , .   |     | 2         |
| 94 | Analysis of Rotational-Vibrational Transition Frequencies of the HCl Molecule and Its RKR Potentials in the Ground Electronic State. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya) 1994, 10, 617-624. | 1.3 | 0         |
| 95 | Application of Pade-forms for fitting and calculating of high-lying rotation-vibration energy levels in diatomic molecules. , 1994, , .  |     | 0         |
| 96 | <title>The procedure of determination of diatomic spectroscopic and molecular parameters from line positions of several isotopomers</title>. , 2006, 6522, 24.   |     | 0         |
| 97 | Improved Dunham coefficients of HCl isotopologues. , 2016, , .   |     | 0         |
| 98 | Nonpolynomial Representation of N <sub>2</sub> -, O <sub>2</sub> -, Air-, and Self-Broadening Coefficients of Ozone Lines. Atmospheric and Oceanic Optics, 2021, 34, 293-301.  | 1.3 | 0         |
| 99 | RKR potentials of HCl isotopologues in the ground electronic state. , 2017, , .  |     | 0         |