

Alexander Fateev

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

583
citations

623734

14
h-index

794594

19
g-index

19
all docs

19
docs citations

19
times ranked

546
citing authors

#	ARTICLE	IF	CITATIONS
1	ExoMol molecular line lists â€“ XIV. The rotationâ€“vibration spectrum of hot SO ₂ . Monthly Notices of the Royal Astronomical Society, 2016, 459, 3890-3899.	4.4	77
2	Plasma Chemistry in an Atmospheric Pressure Ar/NH ₃ Dielectric Barrier Discharge. Plasma Processes and Polymers, 2005, 2, 193-200.	3.0	75
3	Photochemistry of Anoxic Abiotic Habitable Planet Atmospheres: Impact of New H ₂ O Cross Sections. Astrophysical Journal, 2020, 896, 148.	4.5	45
4	Validation of HITEMP-2010 for carbon dioxide and water vapour at high temperatures and atmospheric pressures in 450â€“7600cm ⁻¹ spectral range. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 157, 14-33.	2.3	41
5	High-resolution transmission measurements of CO ₂ at high temperatures for industrial applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 2222-2233.	2.3	40
6	Machine learning applied to retrieval of temperature and concentration distributions from infrared emission measurements. Applied Energy, 2019, 252, 113448.	10.1	40
7	A Comparative Study of Atmospheric Chemistry with VULCAN. Astrophysical Journal, 2021, 923, 264.	4.5	39
8	Measurement and Modeling of Particle Radiation in Coal Flames. Energy & Fuels, 2014, 28, 2199-2210.	5.1	35
9	Validation of spectral gas radiation models under oxyfuel conditions. Part A: Gas cell experiments. International Journal of Greenhouse Gas Control, 2011, 5, S76-S99.	4.6	32
10	ExoMol molecular line lists â€“ XVII. The rotationâ€“vibration spectrum of hot SO ₃ . Monthly Notices of the Royal Astronomical Society, 2016, 462, 4300-4313.	4.4	32
11	An inverse radiation model for optical determination of temperature and species concentration: Development and validation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 151, 198-209.	2.3	28
12	High-resolution absorption measurements of NH ₃ at high temperatures: 500â€“2100cm ⁻¹ . Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 167, 126-134.	2.3	20
13	Hot gas flow cell for optical measurements on reactive gases. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 130, 392-399.	2.3	17
14	High temperature and high pressure gas cell for quantitative spectroscopic measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 169, 96-103.	2.3	16
15	Measurements of the NO _x precursors and major species concentrations above the grate at a waste-to-energy plant. Fuel, 2018, 222, 475-484.	6.4	12
16	High-resolution absorption measurements of NH ₃ at high temperatures: 2100â€“5500 cm ⁻¹ . Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 189, 60-65.	2.3	11
17	Validation of Emission Spectroscopy Gas Temperature Measurements Using a Standard Flame Traceable to the International Temperature Scale of 1990 (ITS-90). International Journal of Thermophysics, 2019, 40, 1.	2.1	11
18	Direct and inverse problems of infrared tomography. Applied Optics, 2016, 55, 208.	2.1	8

#	ARTICLE	IF	CITATIONS
19	Evaluation of spectral radiative properties of gases in high-pressure combustion. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 280, 108089.	2.3	4