Feng Xie

List of Publications by Year
in descending order

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66	522	623734	752698
papers	citations	14 h-index	20 g-index

67	67	67	254
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Study on the representativeness of airborne effluent sampling in the stack of a high-temperature gas-cooled pebble-bed modular reactor. Annals of Nuclear Energy, 2022, 165, 108680.	1.8	1
2	A data- and model-driven strategy for the evaluation of the experimental transition lines: Theoretical prediction for the ground state of 12C16O. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 264, 120278.	3.9	1
3	A method for predicting the molar heat capacities of HBr and HCl gases based on the full set of molecular rovibrational energies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 267, 120564.	3.9	14
4	The effect of the Doppler mismatch in microwave electrometry using Rydberg electromagnetically induced transparency and Autlerâ€“Townes splitting. Journal of Physics B: Atomic, Molecular and Optical Physics, 2022, 55, 075501.	1.5	6
5	Two-photon Raman transition channels of NaCs predicted from ab initio calculations. Physical Review A, 2022, 105, .	2.5	0
6	Combining ab initio and machine learning method to improve the prediction of diatomic vibrational energies. International Journal of Quantum Chemistry, 2022, 122, .	2.0	4
7	Span shift and extension of quantum microwave electrometry with Rydberg atoms dressed by an auxiliary microwave field. Physical Review A, 2021, 103, .	2.5	28
8	Analysis of the hyperfine structure of the 13Î”g, 23Îg, and 33Î£g+ states of 6Li7Li. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 270, 107665.	2.3	1
9	Development of an interatomic potential for Fe-He by neural network. Computational Materials Science, 2021, 196, 110549.	3.0	3
10	Transfer phase of microwave to beat amplitude in a Rydberg atom-based mixer by Zeeman modulation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 165501.	1.5	15
11	Study on potential energy curves and ro-vibrational energies of DT, HT and T2 molecules. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 260, 119913.	3.9	2
12	Using amplitude modulation of the microwave field to improve the sensitivity of Rydberg-atom based microwave electrometry. AIP Advances, 2021, 11, .	1.3	16
13	Actinyl-Carboxylate Complexes [AnO₂(COOH)_n(H₂O)_m]^{2â€“n} (An = U, Np, Pu, and Am; n = 1â€“3; m = 0, 2, 4; 2n + m = 6): Electronic Structures, Interaction Features, and the Potential to Adsorbents toward Cs Ion. ACS Omega, 2020, 5, 31974-31983.	3.5	2
14	Spectroscopy learning: A machine learning method for study diatomic vibrational spectra including dissociation behavior. MethodsX, 2020, 7, 101127.	1.6	2
15	Monte Carlo simulation of activity concentration measurement of primary coolant of high-temperature gas-cooled pebble-bed modular reactor. Annals of Nuclear Energy, 2020, 142, 107418.	1.8	1
16	Ab initio predictions for the reaction mechanism and orbital topological properties of the formation of Neptunimine, Plutonimine, and its side products. Journal of Molecular Modeling, 2020, 26, 163.	1.8	1
17	A joint data and model driven method for study diatomic vibrational spectra including dissociation behavior. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 239, 118363.	3.9	10
18	Reaction mechanism of synthetic thorium sulfides: theoretical calculation study. Journal of Molecular Modeling, 2020, 26, 123.	1.8	0

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19	Graphite dust emission evaluation in an HTGR depressurization accident. Annals of Nuclear Energy, 2020, 147, 107664.	1.8	4
20	Structural optimization and melting behavior investigation of Pd-Ag bimetallic nanoparticles by molecular simulations. Computational Materials Science, 2020, 176, 109520.	3.0	3
21	Summary of Tritium Source Term Study in 10 MW High Temperature Gas-Cooled Test Reactor. Fusion Science and Technology, 2020, 76, 513-525.	1.1	3
22	Analysis of the hyperfine structure of the Cs2 <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si11.svg"><mml:mrow><mml:msup><mml:mn>3</mml:mn><mml:mn>3</mml:mn></mml:msup><mml:msubsup><mml:mstyle mathvariant="normal"><mml:mi>Î£</mml:mi></mml:mstyle><mml:mi>g</mml:mi><mml:mo>+</mml:mo></mml:msubsup></mml:mrow state. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 250, 107037.	2.3	5
23	Frequency stabilization method for transition to a Rydberg state using Zeeman modulation. Applied Optics, 2020, 59, 2108.	1.8	18
24	Dispersive microwave electrometry using Zeeman frequency modulation spectroscopy of electromagnetically induced transparency in Rydberg atoms. Applied Optics, 2020, 59, 8253.	1.8	16
25	The formation mechanism of uranium and thorium hydride phosphorus: a systematically theoretical study. RSC Advances, 2019, 9, 17119-17128.	3.6	3
26	A Comprehensive Study of the 14C Source Term in the 10 MW High-Temperature Gas-Cooled Reactor. Radiocarbon, 2019, 61, 1169-1183.	1.8	2
27	Experimental Investigation of 14C in the Primary Coolant of the 10 MW High Temperature Gas-Cooled Reactor. Radiocarbon, 2019, 61, 867-884.	1.8	4
28	Organic Compounds of Actinyls: Systematic Computational Assessment of Structural and Topological Properties in [AnO₂(C₂O₄)_n]^{(2nâ^’2)â€“} (An) Tj ETQq0 0 0 rgBT /Ove	4.0	11
29	Ab initio calculation on spectroscopic properties and radiative lifetimes of low-lying excited states of NaK. Chinese Journal of Chemical Physics, 2019, 32, 667-673.	1.3	1
30	Actinide Endohedral and Exohedral Cubic Siloxanes: An(IV)@(HSiO_{1.5})₈ and An(IV)&(RSiO_{1.5})₈ (An = U, Np, Pu; R = H, Cl, OH). European Journal of Inorganic Chemistry, 2019, 2019, 4660-4667.	2.0	2
31	Development of a pair potential for Ta-He system. Computational Materials Science, 2019, 156, 268-272.	3.0	4
32	EXPERIMENTAL DESIGN ON PERFORMANCE IMPROVEMENT OF THE HELIUM PURIFICATION SYSTEM OF HTR-10. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2019, 2019.27, 1581.	0.0	0
33	THE TRANSPORT BEHAVIOR OF TYPICAL METALLIC FISSION PRODUCTS IN HTGRS. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2019, 2019.27, 1300.	0.0	0
34	A SUMMARY OF TRITIUM BEHAVIOR IN NUCLEAR POWER PLANTS. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2019, 2019.27, 1594.	0.0	0
35	A SUMMARY OF THE CLEARANCE PRACTICE OF THE SPENT RESIN FROM NUCLEAR POWER PLANTS IN CHINA. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2019, 2019.27, 1599.	0.0	0
36	EVALUATION OF SOURCE TERMS OF FISSION PRODUCTS IN GASEOUS EFFLUENTS AND RECOMMENDATIONS FOR EFFLUENT MONITORING OF NUCLEAR POWER PLANTS. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2019, 2019.27, 1196.	0.0	0

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37	Study of tritium in the primary loop of HTR-10: Experiment and theoretical calculations. Progress in Nuclear Energy, 2018, 105, 99-105.	2.9	16
38	Can water continuously oxidize the PuO molecule? Mechanisms, topological analysis and rate constant calculations. RSC Advances, 2018, 8, 4295-4303.	3.6	4
39	Renewed analysis of the hyperfine structure of the Na2 13Î"g state. AIP Advances, 2018, 8, 125322.	1.3	3
40	Design of the Online Gross Î³ Monitoring Instrument at the Exit of the Helium Purification System in HTR-PM. Science and Technology of Nuclear Installations, 2018, 2018, 1-12.	0.8	1
41	Simulations of the dust behavior in the sampling and dust filters in the primary loop of HTR-10. Nuclear Engineering and Design, 2018, 340, 112-121.	1.7	9
42	A comprehensive study on source terms in irradiated graphite spheres of HTR-10. Annals of Nuclear Energy, 2018, 122, 352-365.	1.8	15
43	Design of the Sampling Measurement and Radiochemistry Lab in the Nuclear Island of HTR-PM. , 2018, , .		2
44	Source Term Analysis of Tritium in HTR-10. Fusion Science and Technology, 2017, 71, 671-678.	1.1	14
45	Re-examination of the Cs2 ground singlet X1Î£g+ and triplet a3Î£u+ states. Journal of Chemical Physics, 2017, 147, 104301.	3.0	12
46	Experimental study on the content and distribution of key nuclides in an irradiated graphite sphere of HTR-10. Nuclear Engineering and Design, 2017, 323, 39-45.	1.7	16
47	Experimental research on the radioactive dust in the primary loop of HTR-10. Nuclear Engineering and Design, 2017, 324, 372-378.	1.7	24
48	Source Term Analysis of the Irradiated Graphite in the Core of HTR-10. Science and Technology of Nuclear Installations, 2017, 2017, 1-6.	0.8	8
49	Source Term Study on Tritium in HTR-PM: Theoretical Calculations and Experimental Design. Science and Technology of Nuclear Installations, 2017, 2017, 1-11.	0.8	11
50	Design of the Process and Effluent Radiation Monitoring System of HTR-PM. , 2016, , .		2
51	ICONE23-1479 THE RESEARCH PROGRESS ON THE RADIOACTIVE GRAPHITE DUST IN HTR-10. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2015, 2015.23, _ICONE23-1-_ICONE23-1.	0.0	2
52	ICONE23-1697 STUDY ON THE PRODUCTION MECHANISM OF CO-60 IN THE PRIMARY LOOP OF HTR-10. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2015, 2015.23, _ICONE23-1-_ICONE23-1.	0.0	2
53	A Reform in the Helium Purification System of the HTR-10: Î³ Dose Rate Measurement and Suggestions for Decommissioning. , 2013, , .		1
54	Collisional Line Assignments and Hyperfine Structure Interpretation in Cs2 23Î"1g State. Chinese Journal of Chemical Physics, 2013, 26, 13-19.	1.3	3

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55	Joint analysis of the Cs2â€ˆ$a^3Sigma _u^+$a3Î£u+ and 1g (33Î1g) states. Journal of Chemical Physics, 2011, 135, 024303.	3.0	17
56	RESOLVED FLUORESCENCE SPECTROSCOPY OF THE Cs2 33Îg â†' b3Îu TRANSITION. , 2011, , .		0
57	The hyperfine structure analysis of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si14.gif" display="inline" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mtext>K</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn> width="0.35em" /><mml:msup><mml:mrow><mml:mn>2</mml:mn></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msup><mml:mrow mathvariant="normal">Î£</mml:mrow><mml:mrow><mml:mi>g</mml:mi></mml:mrow><mml:mr.	2.6	6
58	Experimental investigation of the Cs2â€ˆaâ€‰Î£3u+ triplet ground state: Multiparameter Morse long range potential analysis and molecular constants. Journal of Chemical Physics, 2009, 130, 051102.	3.0	45
59	Experimental investigation of the R85b2â€ˆaâ€‰Î£3u+ triplet ground state: Multiparameter Morse long range potential analysis. Journal of Chemical Physics, 2009, 131, 094505.	3.0	27
60	Observation and calculation of the Cs2â€ˆ2Î"1g3 and bÎu3 states. Journal of Chemical Physics, 2008, 128, 204313.	3.0	17
61	Relabeling of the K2 Rydberg States. Chinese Journal of Chemical Physics, 2007, 20, 339-344.	1.3	0
62	The <mml:math altimg="si23.gif" display="inline" 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:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	2.6	26
63	Observations and analysis of the K2 state using the infraredâ€"infrared double resonance spectroscopy. Chemical Physics, 2007, 332, 10-16.	1.9	8
64	Combined analysis of the PFOODR data on the a 3Î£ u + , 23Îg, 23Î£ g + , 33Îg, and 43Î£ g + states of the K2 molecule. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2007, 103, 723-727.	0.6	7
65	The K2 23Îg State:â€‰ New Observations and Analysis. Journal of Physical Chemistry A, 2006, 110, 11260-11264.	2.5	14
66	New experimental data on the K2 state analyzed with the multi-parameter approach. Journal of Molecular Spectroscopy, 2005, 234, 41-52.	1.2	25