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| نام و نام خانوادگی | علیرضا شایسته       |
| مرتبه علمی         | دانشیار             |
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#### تحصیلات

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#### پذیرش مسئولیت قوای سه گانه

(1) معاون پژوهشی و تحصیلات تکمیلی دانشکده شیمی، 1397/09/13

#### فعالیت‌های اجرایی

(1) عضو کمیته علمی المپیاد شیمی، 1393/07/01، 1395/07/01، ایران، تهران  
(2) معاونت آموزشی دانشکده شیمی، 1394/04/01، 1396/08/30، ایران، تهران

#### مقالات چاپ شده در نشریات بین المللی

- 1) Alireza Shayesteh, Keith Tereszchuk, and Reginald Colin. "The Vibration-Rotation Emission Spectrum of Free BeH<sub>2</sub>." Science 297, no. 5585 (2002): 1323-1324.
- 2) Alireza Shayesteh, Keith Tereszchuk, , and Reginald Colin. "Infrared emission spectra of BeH<sub>2</sub> and BeD<sub>2</sub>." JOURNAL OF CHEMICAL PHYSICS 118, no. 8 (2003): 3622.
- 3) Alireza Shayesteh, Dominique Appadoo, Iouli Gordon, and . "The vibration-rotation emission spectrum of MgH<sub>2</sub>." JOURNAL OF CHEMICAL PHYSICS 119, no. 15 (2003): 7785.
- 4) Alireza Shayesteh, Keith Tereszchuk, , and Reginald Colin. "Infrared emission spectra of BeH and BeD." JOURNAL OF CHEMICAL PHYSICS 118, no. 3 (2003): 1158.
- 5) Alireza Shayesteh, Dominique Appadoo, Iouli Gordon, Robert Le Roy, and . "Fourier transform infrared emission spectra of MgH and MgD." JOURNAL OF CHEMICAL PHYSICS 120, no. 21 (2004): 10002.
- 6) Alireza Shayesteh, Kaley Walker, Iouli Gordon, Dominique Appadoo, and . "New Fourier transform infrared emission spectra of CaH and SrH: combined isotopomer analyses with CaD and SrD." JOURNAL OF MOLECULAR STRUCTURE 695-696, no. 695-696 (2004): 23-37.
- 7) Alireza Shayesteh, Dominique Appadoo, Iouli Gordon, and . "The antisymmetric stretching fundamental band of free MgD<sub>2</sub> ." CANADIAN JOURNAL OF CHEMISTRY 82, no. 6 (2004): 947-950.
- 8) Alireza Shayesteh, Dominique Appadoo, Iouli Gordon, and . "Vibration-Rotation Emission Spectra of Gaseous ZnH<sub>2</sub> and ZnD<sub>2</sub> ." JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 126, no. 44 (2004): 14356-14357.
- 9) Alireza Shayesteh, Iouli Gordon, Dominique Appadoo, and . "Infrared emission spectra and equilibrium bond lengths of gaseous ZnH<sub>2</sub> and ZnD<sub>2</sub>." PHYSICAL CHEMISTRY CHEMICAL PHYSICS 7, no. 17 (2005): 3132.
- 10) Shanshan Yu, Alireza Shayesteh, and . "The vibration-rotation emission spectra of gaseous CdH<sub>2</sub> and CdD<sub>2</sub>." JOURNAL OF CHEMICAL PHYSICS 122, no. 19 (2005): 194301.
- 11) Iouli Gordon, Dominique Appadoo, Alireza Shayesteh, Kaley Walker, and . "Fourier transform infrared emission spectra of MnH and MnD." JOURNAL OF MOLECULAR SPECTROSCOPY 229, no. 1 (2005): 145-149.

- 12) Robert Le Roy, Dominique Appadoo, Kevin Anderson, Alireza Shayesteh, Iouli Gordon, and . "Direct-potential-fit analysis of new infrared and UV/visible A [sup 1]Σ[sup +]-X [sup 1]Σ[sup +] emission spectra of AgH and AgD." JOURNAL OF CHEMICAL PHYSICS 123, no. 20 (2005): 204304.
- 13) Shanshan Yu, Alireza Shayesteh, , and Jacek Koput. "The vibration-rotation emission spectrum of hot BeF[sub 2]." JOURNAL OF CHEMICAL PHYSICS 123, no. 13 (2005): 134303.
- 14) Shanshan Yu, Dejian Fu, Alireza Shayesteh, Iouli Gordon, Dominique Appadoo, and . "Infrared and near infrared emission spectra of SbH and SbD." JOURNAL OF MOLECULAR SPECTROSCOPY 229, no. 2 (2005): 257-265.
- 15) Shanshan Yu, Alireza Shayesteh, Dejian Fu, and . "Infrared and near infrared emission spectra of TeH and TeD." JOURNAL OF MOLECULAR SPECTROSCOPY 230, no. 2 (2005): 105-116.
- 16) Shanshan Yu, Alireza Shayesteh, Dejian Fu, and . "The Vibration-Rotation Emission Spectrum of Gaseous HZnCl." JOURNAL OF PHYSICAL CHEMISTRY A 109, no. 18 (2005): 4092-4094.
- 17) Alireza Shayesteh, Shanshan Yu, and . "Gaseous HgH<sub>2</sub>, CdH<sub>2</sub>, and ZnH<sub>2</sub>." CHEMISTRY-A EUROPEAN JOURNAL 11, no. 16 (2005): 4709-4712.
- 18) Alireza Shayesteh, Shanshan Yu, and . "Infrared Emission Spectra and Equilibrium Structures of Gaseous HgH<sub>2</sub> and HgD<sub>2</sub> ." JOURNAL OF PHYSICAL CHEMISTRY A 109, no. 45 (2005): 10280-10286.
- 19) Alireza Shayesteh, and . "Rotational [script-I]-type resonance in BeH[sub 2], BeD[sub 2], and MgH[sub 2]." JOURNAL OF CHEMICAL PHYSICS 124, no. 15 (2006): 156101.
- 20) Alireza Shayesteh, Robert Le Roy, Thomas Varberg, and . "Multi-isotopologue analyses of new vibration-rotation and pure rotation spectra of ZnH and CdH." JOURNAL OF MOLECULAR SPECTROSCOPY 237, no. 1 (2006): 87-96.
- 21) Alireza Shayesteh, Robert Henderson, Robert Le Roy, and Peter Bernath. "Ground State Potential Energy Curve and Dissociation Energy of MgH + ." JOURNAL OF PHYSICAL CHEMISTRY A 111, no. 49 (2007): 12495-12505.
- 22) Ping Cheng, Alireza Shayesteh, and Diethard Bohme. "Gas-Phase Reactions of Sulfur Hexafluoride with Transition Metal and Main Group Atomic Cations: Room-Temperature Kinetics and Periodicities in Reactivity." INORGANIC CHEMISTRY 48, no. 3 (2009): 1018-1029.
- 23) Alireza Shayesteh, Vitali Lavrov, Gregory Koyanagi, and Diethard Bohme. "Reactions of Atomic Cations with Methane: Gas Phase Room-Temperature Kinetics and Periodicities in Reactivity." JOURNAL OF PHYSICAL CHEMISTRY A 113, no. 19 (2009): 5602-5611.
- 24) Alireza Shayesteh, and . "Deperturbation of the nu<sub>3</sub> band of BeD<sub>2</sub>." JOURNAL OF CHEMICAL PHYSICS 134, no. 1 (2011): -.
- 25) Alireza Shayesteh, and Peter Bernath . "Rotational analysis and deperturbation of the A - X and B - X emission spectra of MgH." JOURNAL OF CHEMICAL PHYSICS 134, no. 9 (2011): -.
- 26) Mohammad Mostafanejad, and Alireza Shayesteh. "Ab initio potential energy curves and transition dipole moments for the X 2SIGMA A 2PI and B 2SIGMA states of MgH." CHEMICAL PHYSICS LETTERS 551, no. 1 (2012): -.
- 27) Ehsan Gharibnezhad, Alireza Shayesteh, and Peter Bernath . "Fourier transform emission spectra of the A-X and B-X transitions of CaD." JOURNAL OF MOLECULAR SPECTROSCOPY 281, no. 1 (2012): -.
- 28) Alireza Shayesteh, Ram Ram, and . "Fourier transform emission spectra of the A2Π□X2Σ+ and B2Σ+□X2Σ+ band systems of CaH." JOURNAL OF MOLECULAR SPECTROSCOPY 288, no. 288 (2013): 46-51.
- 29) Ehsan Gharibnezhad, Alireza Shayesteh, and . "Einstein A coefficients for rovibronic lines of the A 2 -> X 2 + and B' 2 +-> X 2 + transitions of MgH." MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY 432, no. 3 (2013): 2043-2047.
- 30) Robert Henderson, Alireza Shayesteh, Jason Tao, Carl Haugen, Peter Bernath, and Robert Le Roy. "Accurate Analytic Potential and Born-Oppenheimer Breakdown Functions for MgH and MgD from a Direct-Potential-Fit Data Analysis." JOURNAL OF PHYSICAL CHEMISTRY A 117, no. 50 (2013): 13373.
- 31) Davood Alizadeh, Zahra Jamshidi, and Alireza Shayesteh. "Spin-orbit and relativistic all-electron potential energy curves for the ground and low-lying excited states of AgAu." PHYSICAL CHEMISTRY CHEMICAL PHYSICS 15, no. 42 (2013): 18678.

- 32) Davood Alizadeh, , and Alireza Shayesteh. "Potential energy curves for the ground and low-lying excited states of CuAg." JOURNAL OF CHEMICAL PHYSICS 141, no. 15 (2014): 154301.
- 33) Zeinab Biglari, Alireza Shayesteh, and Ali Maghari. "Ab initio potential energy curves and transition dipole moments for the low-lying states of CH+." Computational and Theoretical Chemistry 1047, no. 1 (2014): 22-29.
- 34) Alireza Shayesteh, and Ehsan Ghazizadeh. "Dunham coefficients for the X1Σ+ ground state of BH and BD." JOURNAL OF MOLECULAR SPECTROSCOPY 312, no. 1 (2015): 110-112.
- 35) Bentolhoda Gerivani, Alireza Shayesteh, and Ali Maghari. "Ab initio potential energy curves and transition dipole moments for the low-lying electronic states of NeH+." Computational and Theoretical Chemistry 1070, no. 1 (2015): 82-87.
- 36) Maryam S. Motallebipour, and Alireza Shayesteh. "Deperturbation of the 011□010 hot band for ZnH2 and ZnD2." JOURNAL OF MOLECULAR SPECTROSCOPY 318, no. 1 (2015): 34-39.
- 37) , , Negar Lashgari, Ali Reza Badiei, Alireza Shayesteh, and Maryam Jafari. "A Simple Colorimetric Chemosensor for Naked Eye Detection of Cyanide Ion." JOURNAL OF FLUORESCENCE 26, no. 5 (2016): 1857-1864.
- 38) Afraz Nakhostin, Samaneh Mirseyedhosein, Mahsa Toolabi, Pariya Khodabakhsh, Helia Aghamiri, Soheila Ghaffari, Hamed Shafaroodi, Alireza Shayesteh, Mohsen Amini, Abbas Shafiee, and Latifeh Navidpour. "Synthesis, conformational assignment, and anti-inflammatory activities of N-arylidene-2-(4-chloro-2-(2-substituted phenoxy)phenyl)acetic acid hydrazides." MEDICINAL CHEMISTRY RESEARCH 25, no. 10 (2016): 2220-2236.
- 39) Maryam S. Motallebipour, and Alireza Shayesteh. "Determination of v2 fundamental band origin for BeH2 and BeD2 from deperturbation analysis of hot bands." JOURNAL OF CHEMICAL PHYSICS 145, no. 7 (2016): 074310.
- 40) Jafar Afshani, Ali Reza Badiei, Maryam Jafari, Alireza Shayesteh, Mahdi Karimi, Negar Lashgari, and . "A single optical sensor with high sensitivity for detection of Fe3+ and CN- ions." JOURNAL OF LUMINESCENCE 179, no. 1 (2016): 463-468.
- 41) Alireza Shayesteh, S. Fatemeh Alavi, Moloud Rahman, and Ehsan Gharibnezhad. "Ab initio transition dipole moments and potential energy curves for the low-lying electronic states of CaH." CHEMICAL PHYSICS LETTERS 667, no. 1 (2017): 345-350.
- 42) S. Fatemeh Alavi, and Alireza Shayesteh. "Einstein A coefficients for rovibronic lines of the A2Π □ X2Σ+ and B2Σ+ □ X2Σ+ transitions of CaH and CaD." MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY 474, no. 1 (2017): 2-11.
- 43) Zeinab Biglari, Alireza Shayesteh, and Shokouh Ershadifar. "Ab initio calculations on low-lying electronic states of SiH+." JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER 221, no. 1 (2018): 80-86.
- 44) Fathola A. Nabi, and Alireza Shayesteh. "Ab initio calculations on low□lying electronic states of PdH." INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY 119, no. 13 (2019): e25967.

همایش‌های داخلی

- 1) Alireza Shayesteh. "Spectroscopy of Metal Hydrides." 15th Iranian Chemistry Congress, Hamedan.
- 2) Maryam S. Motallebipour, and Alireza Shayesteh. "Deperturbation analysis of the nu3 fundamental and hot bands of gaseous BeH2." 18th Iranian Physical Chemistry Conference, Kish.
- 3) Ehsan Ghazizadeh, and Alireza Shayesteh. "Determination of the ground state potential energy curve for CaH from analysis of visible and infrared spectra." 18th Iranian Physical Chemistry Conference, Kish.
- 4) S. Fatemeh Alavi, and Alireza Shayesteh. "Einstein A coefficients for the A1PI-X1SIGMA+ and b3SIGMA--a3PI band systems of CH+ and CD+." 18th Iranian Physical Chemistry Conference, Kish.
- 5) S. Ehsan Ghasempouri, and Alireza Shayesteh. "Ab initio potential energy curves for the low-lying electronic states of TiH." 18th Iranian Physical Chemistry Conference, Kish.
- 6) Fahimeh Aghababazadeh, and Alireza Shayesteh. "Ab initio potential energy curves for the ground and excited states of AlH." 19th Iranian Physical Chemistry Conference, Rasht.
- 7) Sadaf Ehtesabi, and Alireza Shayesteh. "Ab initio potential energy curves for the ground and low-lying excited states of AlAu." 19th Iranian Physical Chemistry Conference, Rasht.

8) Ehsan Ghazizadeh, and Alireza Shayesteh. "Ab initio potential energy curves for the ground and low-lying excited electronic states of SnH+." 19th Iranian Physical Chemistry Conference, Rasht.

9) Paniz Elchian, and Alireza Shayesteh. "Ab initio theoretical study on electronic spectra of pyrimidine and triazine molecules." 19th Iranian Physical Chemistry Conference, Rasht.