

Publications intéressantes

Dans Journal of Chemical Education

2019

- [Development of the Quantization and Probability Representations Inventory as a Measure of Students' Understandings of Particulate and Symbolic Representations of Electron Structure](#) Zahilyn D. Roche Allred, Stacey Lowery Bretz, *J. Chem. Educ.* 2019, 96(8), 1558-1570 DOI: 10.1021/acs.jchemed.9b00098
- [Developing and Using a Computer Simulation of Liquid-Vapor Transitions to Improve Students' Assimilation of Concepts Related to the Behavior of Real Gases](#) David Zorrilla, Jesús Sánchez-Márquez, Víctor García, Manuel Fernández, *J. Chem. Educ.* 2019, 96(8), 1646-1653 DOI: 10.1021/acs.jchemed.8b00939
- [Enthalpy and the Second Law of Thermodynamics](#) David Keifer, *J. Chem. Educ.*, 2019, 96 (7), pp 1407-1411 DOI: 10.1021/acs.jchemed.9b00326
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- [PChem Challenge Game: Reinforcing Learning in Physical Chemistry](#) Tugba G. Kucukkal, Ajda Kahveci, *J. Chem. Educ.*, 2019, 96 (6), pp 1187-1193 DOI: 10.1021/acs.jchemed.8b00757
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- [Design, Fabrication, and Optical Characterization of a Low-Cost and Open-Source Spin Coater](#) Mohammad Sadegh-cheri, *J. Chem. Educ.*, 2019, 96 (6), pp 1268-1272 DOI: 10.1021/acs.jchemed.9b00013
- [Collaborative Learning Exercises for Teaching Protein Mass Spectrometry](#) Michelle L. Kovarik, Jill K. Robinson, *J. Chem. Educ.* 2019, 96 (5) pp905-911 DOI: 10.1021/acs.jchemed.8b00734 + [<https://community.asdlib.org/activelearningmaterials/biological-mass-spectrometry-proteomics/> | Biological Mass Spectrometry: Proteomics]]
- [A Tale of Two Molecules: How the Heat Capacities of N₂\(g\) and F₂\(g\) Differ At High Temperature and Why Naïve Expectations Fail to Explain These Differences: A Spreadsheet Exercise for Physical Chemistry Students](#) Arthur M. Halpern and Robert J. Noll, *J. Chem. Educ.*, 2019, 96 (5), pp 926-935 DOI: 10.1021/acs.jchemed.9b00029
- [Creating and Experimenting with a Low-Cost, Rugged System to Visually Demonstrate the Vapor Pressure of Liquids as a Function of Temperature](#) Rodrigo Papai, Mayara Araujo Romano, Aline Rodrigues Arroyo, Bárbara Rodrigues da Silva, Bruno Tresoldi, Gabriela Cabo Winter, Julia Messias Costa, Maria Aparecida Freitas Santos, Matheus Damasceno Prata, and Ivanise Gaubeur, *J. Chem. Educ.*, 2019, 96 (2), pp 335-341 DOI: 10.1021/acs.jchemed.8b00381
- [Teaching Boyle's Law and Charles' Law through Experiments that Use Novel, Inexpensive Equipment Yielding Accurate Results](#) Taweetham Limpanuparb, Siradanai Kanithasevi, Maytouch Lojanarungsiri, and Puh Pakwilaikiat, *J. Chem. Educ.*, 2019, 96 (1), pp 169-174 DOI: 10.1021/acs.jchemed.8b00460

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- [Facilitating Students' Interaction with Real Gas Properties Using a Discovery-Based Approach and Molecular Dynamics Simulations](#) Chelsea Sweet, Oyewumi Akinfenwa, and Jonathan J. Foley, *J. Chem. Educ.*, 2018, 95 (3), pp 384–392 DOI: 10.1021/acs.jchemed.7b00747

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- [Improving Students' Understanding of the Connections between the Concepts of Real-Gas Mixtures, Gas Ideal-Solutions, and Perfect-Gas Mixtures](#), Romain Privat, Jean-Noël Jaubert, and Edouard Moine, *J. Chem. Educ.*, 2016, 93 (12), pp 2040–2045 DOI: 10.1021/acs.jchemed.6b00553
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- [University chemistry students' interpretations of multiple representations of the helium atom](#) Zahilyn D. Roche Allred and Stacey Lowery Bretz, *Chem. Educ. Res. Pract.*, 2019,20, 358-368 DOI: 10.1039/C8RP00296G

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 - [Contactless, probeless and non-titrimetric determination of acid–base reactions using broadband acoustic resonance dissolution spectroscopy \(BARDS\)](#), M. Rizwan Ahmed, Sean McSweeney, Jacob Krüse, Bastiaan Vos and Dara Fitzpatrick, Analyst, 2018, 956-962. DOI : 10.1039/C7AN01447C

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