

Publications intéressantes

Dans Journal of Chemical Education

2018

- [The Gibbs Phase Rule: What Happens When Some Phases Lack Some Components?](#) Deepika Janakiraman, J. Chem. Educ., 2018, 95 (11), pp 2086–2088 DOI: 10.1021/acs.jchemed.8b00377
- [Liquid Crystal Demonstration of Binary Phase Behavior for the Classroom](#) Marissa E. Tousley, J. Chem. Educ., 2018, 95 (11), pp 2000–2005 DOI: 10.1021/acs.jchemed.8b00081
- [Approximate Equation To Calculate Partial Pressures in a Mixture of Real Gases](#) Bernard Hayez, J. Chem. Educ., 2018, 95 (11), pp 1982–1988 DOI: 10.1021/acs.jchemed.8b00185
- [Investigation of the Ternary Phase Diagram of Water–Propan-2-ol–Sodium Chloride: A Laboratory Experiment](#) Cory C. Pye, M. Angelique Imperial, Coltin Elson, Megan L. Himmelman, Jacquelyn A. White, and Fuhao Lin, J. Chem. Educ., 2018, 95 (8), pp 1398–1401 DOI: 10.1021/acs.jchemed.8b00242
- [Pedagogical Approach to the Modeling and Simulation of Oscillating Chemical Systems with Modern Software: The Brusselator Model](#) Jaime H. Lozano-Parada, Helen Burnham, and Fiderman Machuca Martinez, J. Chem. Educ., 2018, 95 (5), pp 758–766 DOI: 10.1021/acs.jchemed.7b00703
- [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

2017

- [Radius Ratio Rule Rescue](#) Anna Michmerhuizen, Karine Rose, Wentiiirim Annankra, and Douglas A. Vander Griend, J. Chem. Educ., 2017, 94 (10), pp 1480–1485 DOI: 10.1021/acs.jchemed.6b00970
- [Development and Use of an Open-Source, User-Friendly Package To Simulate Voltammetry Experiments](#) Shuo Wang, Jing Wang, and Yanjing Gao, J. Chem. Educ., 2017, 94 (10), pp 1567–1570 DOI: 10.1021/acs.jchemed.6b00986
- [Adapting and Modifying the Apparatus for Students To Accurately Determine the Freezing Point of a Solvent and Solution](#) Shirong Li, Jianzhong Guo, Kewang Wang, Lin Chen, Daodao Hu, and Yunshan Bai, J. Chem. Educ., 2017, 94 (10), pp 1590–1593 DOI: 10.1021/acs.jchemed.7b00253
- [Periodic Reactions: The Early Works of William C. Bray and Alfred J. Lotka](#) Rinaldo Cervellati and Emanuela Greco, J. Chem. Educ., 2017, 94 (2), pp 195–201 DOI: 10.1021/acs.jchemed.6b00342
- [Partially Miscible Water–Triethylamine Solutions and Their Temperature Dependence](#), Johan P. Erikson, J. Chem. Educ., 2017, 94 (1), pp 75–78 DOI: 10.1021/acs.jchemed.6b00489

2016

- [From Discrete to Continuous Process Simulation in Classical Thermodynamics: Irreversible Expansions of Ideal Monatomic Gases](#), Carmen Álvarez-Rúa, Javier Borge, J. Chem. Educ., 2016, 93 (12), pp 2110–2116 DOI: 10.1021/acs.jchemed.6b00226
 - correction : <http://pubs.acs.org/doi/abs/10.1021/acs.jchemed.7b00132>

- [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
- [Let Students Derive, by Themselves, Two-Dimensional Atomic and Molecular Quantum Chemistry from Scratch](#), Yingbin Ge, *J. Chem. Educ.*, 2016, 93 (12), pp 2033–2039 DOI: 10.1021/acs.jchemed.6b00572
- [Assembling and Using a Simple, Low-Cost, Vacuum Filtration Apparatus That Operates without Electricity or Running Water](#) Fengxiu Zhang, Yiwei Hu, Yaling Jia, Yonghua Lu, and Guangxian Zhang, *J. Chem. Educ.*, 2016, 93 (10), pp 1818–1820 DOI: 10.1021/acs.jchemed.5b00997
- [Rethinking Undergraduate Physical Chemistry Curricula](#), Stephen R. Miller, *J. Chem. Educ.*, 2016, 93 (9), pp 1536–1542 DOI: 10.1021/acs.jchemed.5b00945
- [Teaching the Concept of Gibbs Energy Minimization through Its Application to Phase-Equilibrium Calculation](#), Romain Privat, Jean-Noël Jaubert, Etienne Berger, Lucie Coniglio, Cécile Lemaitre, Dimitrios Meimaroglou, and Valérie Warth, *J. Chem. Educ.*, 2016, 93 (9), pp 1569–1577 DOI: 10.1021/acs.jchemed.6b00205
- [Interactively Applying the Variational Method to the Dihydrogen Molecule: Exploring Bonding and Antibonding](#), Vinícius Wilian D. Cruzeiro, Adrian Roitberg, and Nicolas C. Polfer, *J. Chem. Educ.*, 2016, 93 (9), pp 1578–1585 DOI: 10.1021/acs.jchemed.6b00017
- [Determination of Surface Tension of Surfactant Solutions through Capillary Rise Measurements: An Image-Processing Undergraduate Laboratory Experiment](#), Cristián Huck-Iriart, Ariel De-Candia, Javier Rodriguez, and Carlos Rinaldi, *J. Chem. Educ.*, 2016, 93 (9), pp 1647–1651 DOI: 10.1021/acs.jchemed.6b00128

2015

- [An Alternative Presentation of the Second Law of Thermodynamics](#) Sangyoub Lee, Kyusup Lee, and Jiyeon Lee, *J. Chem. Educ.*, 2015, 92 (4), pp 771–773 DOI: 10.1021/ed5007822
- [Measuring the Speed of Sound through Gases Using Nitrocellulose](#) Karen Sinclair Molek, Karl A. Reyes, Brandon A. Burnette, and Jacob R. Stepherson, *J. Chem. Educ.*, 2015, 92 (4), pp 762–766 DOI: 10.1021/ed400653t
- [Cost Effective Paper-Based Colorimetric Microfluidic Devices and Mobile Phone Camera Readers for the Classroom](#) Myra T. Koesdjojo, Sumate Pengpumkiat, Yuanyuan Wu, Anukul Boonloed, Daniel Huynh, Thomas P. Remcho, and Vincent T. Remcho, *J. Chem. Educ.*, 2015, 92 (4), pp 737–741 DOI: 10.1021/ed500401d
- [Fabrication of a Paper-Based Microfluidic Device To Readily Determine Nitrite Ion Concentration by Simple Colorimetric Assay](#) Bo Wang, Zhiqiang Lin, and Min Wang, *J. Chem. Educ.*, 2015, 92 (4), pp 733–736 DOI: 10.1021/ed500644m
- [Hydrogen Storage Experiments for an Undergraduate Laboratory Course—Clean Energy: Hydrogen/Fuel Cells](#) Alla Bailey, Lisa Andrews, Ameya Khot, Lea Rubin, Jun Young, Thomas D. Allston, and Gerald A. Takacs, *J. Chem. Educ.*, 2015, 92 (4), pp 688–692 DOI: 10.1021/ed5006294
- [Are the Concepts of Dynamic Equilibrium and the Thermodynamic Criteria for Spontaneity, Nonspontaneity, and Equilibrium Compatible?](#) Lee J. Silverberg, Lionel M. Raff, *J. Chem. Educ.*, 2015, 92 (4), pp 655–659 DOI: 10.1021/ed500660j
- [Implementing an Inexpensive and Accurate Introductory Gas Density Activity with High School Students](#) W. Patrick Cunningham, Christopher Joseph, Samantha Morey, Ana Santos Romo, Cullen Shope, Jonathan Strang, and Kevin Yang, *J. Chem. Educ.*, 2015, 92 (9), pp 1507–1509 DOI: 10.1021/acs.jchemed.5b00277
- [What Is a Kilogram in the Revised International System of Units \(SI\)?](#) Richard S. Davis, *J. Chem.*

Educ., 2015, 92 (10), pp 1604–1609 DOI: 10.1021/acs.jchemed.5b00285

2014

- [Deconstructing Phase Diagram Calculations](#) Pierre Tomasini, J. Chem. Educ., 2014, 91 (6), pp 934–936 DOI: 10.1021/ed400364s
- [Binary Solid–Liquid Phase Diagram of Phenol and t-Butanol: An Undergraduate Physical Chemistry Experiment](#) Xinhua Xu, Xiaogang Wang, and Meifen Wu, J. Chem. Educ., 2014, 91 (6), pp 929–933 DOI: 10.1021/ed400598s
- [An Integrated Visualization and Basic Molecular Modeling Laboratory for First-Year Undergraduate Medicinal Chemistry](#) Joseph M. Hayes, J. Chem. Educ., 2014, 91 (6), pp 919–923 DOI: 10.1021/ed400486d
- [Using a Spreadsheet To Solve the Schrödinger Equations for the Energies of the Ground Electronic State and the Two Lowest Excited States of H₂](#) Yingbin Ge, Robert C. Rittenhouse, Jacob C. Buchanan, and Benjamin Livingston, J. Chem. Educ., 2014, 91 (6), pp 853–859 DOI: 10.1021/ed400693p (? en Python ?)
- [Use of JANAF Tables in Equilibrium Calculations and Partition Function Calculations for an Undergraduate Physical Chemistry Course](#) David A. Cleary, J. Chem. Educ., 2014, 91 (6), pp 848–852 DOI: 10.1021/ed400545x
- [Scent Transmutation: A New Way To Teach on Chemical Equilibrium, Distillation, and Dynamic Combinatorial Chemistry](#) Qing Ji, Nadia S. El-Hamdi, and Ognjen Š. Miljanić, J. Chem. Educ., 2014, 91 (6), pp 830–833 DOI: 10.1021/ed400681w

Springer

- [Some remarks concerning the thermodynamics of the simple ideal gas and related mathematical background](#), Láng, G.G. ChemTexts (2016) 2: 10. doi:10.1007/s40828-016-0028-2

Divers

- [The hot chocolate effect might have practical application](#)
 - [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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