List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Correct classification and identification of autocatalysis. Physical Chemistry Chemical Physics, 2021, 23, 7178-7189. | 2.8 | 12 |
| 2 | Some physical parameters influencing the comprehensive evaluation of kinetic data in photochemical reactions and its application in the periodate-chemistry. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 388, 112021. | 3.9 | 3 |
| 3 | Law of Mass Action Type Chemical Mechanisms for Modeling Autocatalysis and Hypercycles: Their Role in the Evolutionary Race. ChemPhysChem, 2020, 21, 1703-1710. | 2.1 | 6 |
| 4 | Autoinhibition by Iodide Ion in the Methionine–Iodine Reaction. Journal of Physical Chemistry A, 2020, 124, 6029-6038. | 2.5 | 6 |
| 5 | Homogeneous Pd-Catalyzed Heck Coupling in γ-Valerolactone as a Green Reaction Medium: A Catalytic, Kinetic, and Computational Study. ACS Sustainable Chemistry and Engineering, 2020, 8, 9926-9936. | 6.7 | 22 |
| 6 | On the Kinetics and Mechanism of the Thiourea Dioxide–Periodate Autocatalysis-Driven Iodine-Clock Reaction. Journal of Physical Chemistry A, 2019, 123, 7582-7589. | 2.5 | 7 |
| 7 | Reactivity of Small Oxoacids of Sulfur. Molecules, 2019, 24, 2768. | 3.8 | 15 |
| 8 | Kinetics and Mechanism of the Concurrent Reactions of Hexathionate with S(IV) and Thiosulfate in a Slightly Acidic Medium. Journal of Physical Chemistry A, 2019, 123, 5418-5427. | 2.5 | 6 |
| 9 | Exact Concentration Dependence of the Landolt Time in the Thiourea Dioxide–Bromate Substrate-Depletive Clock Reaction. Journal of Physical Chemistry A, 2019, 123, 3959-3968. | 2.5 | 10 |
| 10 | Autocatalysis-Driven Clock Reaction III: Clarifying the Kinetics and Mechanism of the Thiourea Dioxide–Iodate Reaction in an Acidic Medium. Journal of Physical Chemistry A, 2019, 123, 1740-1748. | 2.5 | 9 |
| 11 | Transition from Low to High lodide and lodine Concentration States in the Briggs–Rauscher Reaction: Evidence on Crazy Clock Behavior. Journal of Physical Chemistry A, 2018, 122, 482-491. | 2.5 | 8 |
| 12 | Kinetics of the Two-Stage Oxidation of Sulfide by Chlorine Dioxide. Inorganic Chemistry, 2018, 57, 10189-10198. | 4.0 | 10 |
| 13 | Imperfect mixing as a dominant factor leading to stochastic behavior: a new system exhibiting crazy clock behavior. Physical Chemistry Chemical Physics, 2018, 20, 14145-14154. | 2.8 | 4 |
| 14 | Investigation of the Halogenate–Hydrogen Peroxide Reactions Using the Electron Paramagnetic Resonance Spin Trapping Technique. Journal of Physical Chemistry A, 2017, 121, 3207-3212. | 2.5 | 8 |
| 15 | Stability of gamma-valerolactone under neutral, acidic, and basic conditions. Structural Chemistry, 2017, 28, 423-429. | 2.0 | 57 |
| 16 | Kinetics and Mechanism of the Oxidation of Thiourea Dioxide by Iodine in a Slightly Acidic Medium. Inorganic Chemistry, 2017, 56, 4679-4687. | 4.0 | 12 |
| 17 | Autocatalytic Oxidation of Trithionate by Iodate in a Strongly Acidic Medium. Journal of Physical Chemistry A, 2017, 121, 8189-8196. | 2.5 | 1 |
| 18 | Clarifying the Equilibrium Speciation of Periodate Ions in Aqueous Medium. Inorganic Chemistry, 2017, 56, 11417-11425. | 4.0 | 33 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Reactions of aquacobalamin and cob(II)alamin with chlorite and chlorine dioxide. Journal of Biological Inorganic Chemistry, 2017, 22, 453-459. | 2.6 | 8 |
| 20 | Convection-Induced Fingering Fronts in the Chlorite–Trithionate Reaction. Journal of Physical Chemistry A, 2016, 120, 2514-2520. | 2.5 | 11 |
| 21 | Compatible Mechanism for a Simultaneous Description of the Roebuck, Dushman, and Iodate–Arsenous Acid Reactions in an Acidic Medium. Inorganic Chemistry, 2016, 55, 1595-1603. | 4.0 | 18 |
| 22 | Kinetics and Mechanism of the Chlorite–Periodate System: Formation of a Short-Lived Key Intermediate OClOIO3and Its Subsequent Reactions. Inorganic Chemistry, 2016, 55, 2436-2440. | 4.0 | 4 |
| 23 | Mechanism Involving Hydrogen Sulfite Ions, Chlorite Ions, and Hypochlorous Acid as Key Intermediates of the Autocatalytic Chlorine Dioxide–Thiourea Dioxide Reaction. European Journal of Inorganic Chemistry, 2015, 2015, 5011-5020. | 2.0 | 8 |
| 24 | Comprehensive Simultaneous Kinetic Study of Sulfitolysis and Thiosulfatolysis of Tetrathionate Ion: Unravelling the Unique pH Dependence of Thiosulfatolysis. Journal of Physical Chemistry A, 2015, 119, 1238-1245. | 2.5 | 8 |
| 25 | Initial inhomogeneity-induced crazy-clock behavior in the iodate–arsenous acid reaction in a buffered medium under stirred batch conditions. Physical Chemistry Chemical Physics, 2015, 17, 22187-22194. | 2.8 | 12 |
| 26 | A Simple Kinetic Model for Description of the Iodate–Arsenous Acid Reaction: Experimental Evidence of the Direct Reaction. Journal of Physical Chemistry A, 2015, 119, 11053-11058. | 2.5 | 5 |
| 27 | Compatible mechanism to characterize three independent but cross-coupled reactions of chlorite ion. Chaos, 2015, 25, 064604. | 2.5 | 6 |
| 28 | Classification of Clock Reactions. ChemPhysChem, 2015, 16, 588-594. | 2.1 | 48 |
| 29 | Combined capillary electrophoresis and high performance liquid chromatography studies on the kinetics and mechanism of the hydrogen peroxide–thiocyanate reaction in a weakly alkaline solution. Talanta, 2014, 120, 10-16. | 5.5 | 7 |
| 30 | Recent Developments in the Chemistry of Thiourea Oxides. Chemistry - A European Journal, 2014, 20, 14164-14176. | 3.3 | 44 |
| 31 | Kinetics and Mechanism of the Oxidation of Bromide by Periodate in Aqueous Acidic Solution. Journal of Physical Chemistry A, 2014, 118, 10713-10719. | 2.5 | 9 |
| 32 | Kinetics and Mechanism of the Oxidation of Pentathionate Ion by Chlorine Dioxide in a Slightly Acidic Medium. Journal of Physical Chemistry A, 2014, 118, 1293-1299. | 2.5 | 14 |
| 33 | A New System for Studying Spatial Front Instabilities: The Supercatalytic Chlorite–Trithionate Reaction. Journal of Physical Chemistry A, 2014, 118, 815-821. | 2.5 | 5 |
| 34 | Autocatalysis-Driven Clock Reaction II: Kinetics of the Pentathionate–Periodate Reaction. Journal of Physical Chemistry A, 2014, 118, 9811-9819. | 2.5 | 17 |
| 35 | A Possible Candidate to Be Classified as an Autocatalysis-Driven Clock Reaction: Kinetics of the Pentathionate $\hat{a} \in \hat{a}$ lodate Reaction. Journal of Physical Chemistry A, 2014, 118, 6171-6180. | 2.5 | 17 |
| 36 | Kinetic Evidence of Tautomerism of Thiourea Dioxide in Aqueous Acidic Solutions. European Journal of Inorganic Chemistry, 2014, 2014, 1875-1879. | 2.0 | 11 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Kinetics and Mechanism of the Hypochlorous Acid–Trithionate Reaction. Journal of Physical Chemistry A, 2013, 117, 8836-8842. | 2.5 | 3 |
| 38 | Kinetics and Mechanism of the Alkaline Decomposition of Hexathionate Ion. Journal of Physical Chemistry A, 2013, 117, 2924-2931. | 2.5 | 10 |
| 39 | A rate law model for the explanation of complex pH oscillations in the thiourea–iodate–sulfite flow system. Physical Chemistry Chemical Physics, 2012, 14, 1502-1506. | 2.8 | 6 |
| 40 | Pattern formation in the iodate–sulfite–thiosulfate reaction–diffusion system. Physical Chemistry Chemical Physics, 2012, 14, 131-137. | 2.8 | 33 |
| 41 | Bisulfite-Driven Autocatalysis in the Bromate–Thiosulfate Reaction in a Slightly Acidic Medium. Inorganic Chemistry, 2012, 51, 12062-12064. | 4.0 | 16 |
| 42 | General Pathway of Sulfur-Chain Breakage of Polythionates by lodine Confirmed by the Kinetics and Mechanism of the Pentathionate–lodine Reaction. Inorganic Chemistry, 2012, 51, 7837-7843. | 4.0 | 16 |
| 43 | Kinetics and Mechanism of the Chlorine Dioxide–Trithionate Reaction. Journal of Physical Chemistry A, 2012, 116, 2911-2919. | 2.5 | 17 |
| 44 | On the Complexity of Kinetics and the Mechanism of the Thiosulfate–Periodate Reaction. Inorganic Chemistry, 2011, 50, 5793-5802. | 4.0 | 15 |
| 45 | Kinetics and Mechanism of Alkaline Decomposition of the Pentathionate Ion by the Simultaneous Tracking of Different Sulfur Species by High-Performance Liquid Chromatography. Inorganic Chemistry, 2011, 50, 9670-9677. | 4.0 | 16 |
| 46 | High Performance Liquid Chromatography Study on the Kinetics and Mechanism of Chloriteâ^'Thiosulfate Reaction in Slightly Alkaline Medium. Journal of Physical Chemistry A, 2011, 115, 1853-1860. | 2.5 | 14 |
| 47 | An improved chemical model for the quantitative description of the front propagation in the tetrathionate–chlorite reaction. Physical Chemistry Chemical Physics, 2010, 12, 2356. | 2.8 | 8 |
| 48 | Non-Triiodide Based Autoinhibition by Iodide Ion in the Trithionateâ~'Iodine Reaction. Journal of Physical Chemistry A, 2010, 114, 6521-6526. | 2.5 | 16 |
| 49 | Complex Kinetics of a Landolt-Type Reaction: The Later Phase of the Thiosulfateâ^'lodate Reaction. Journal of Physical Chemistry A, 2010, 114, 5752-5758. | 2.5 | 10 |
| 50 | Photochemically induced catalysis of iodide ion and iodine in the tetrathionate–periodate reaction. Physical Chemistry Chemical Physics, 2010, 12, 6742. | 2.8 | 12 |
| 51 | Revisiting the Kinetics and Mechanism of the Tetrathionateâ^'Hypochlorous Acid Reaction in Nearly Neutral Medium. Journal of Physical Chemistry A, 2009, 113, 13907-13912. | 2.5 | 5 |
| 52 | Simultaneous Evaluation of Different Types of Kinetic Traces of a Complex System: Kinetics and Mechanism of the Tetrathionateâ^'Bromine Reaction. Journal of Physical Chemistry A, 2009, 113, 9988-9996. | 2.5 | 9 |
| 53 | Simultaneous Investigation of the Landolt and Dushman Reactions. Journal of Physical Chemistry A, 2008, 112, 5954-5959. | 2.5 | 16 |
| 54 | Effect of Chloride Ion on the Kinetics and Mechanism of the Reaction between Chlorite Ion and Hypochlorous Acid. Inorganic Chemistry, 2008, 47, 7914-7920. | 4.0 | 33 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Theoretical Investigation on the Concentration Dependence of the Landolt Time. Journal of Physical Chemistry A, 2008, 112, 7868-7872. | 2.5 | 10 |
| 56 | Revised Explanation of the pH Oscillations in the Iodateâ^'Thiosulfateâ^'Sulfite System. Journal of Physical Chemistry A, 2008, 112, 3935-3942. | 2.5 | 11 |
| 57 | Kinetics and Mechanism of the Decomposition of Tetrathionate Ion in Alkaline Medium. Inorganic Chemistry, 2007, 46, 7654-7661. | 4.0 | 37 |
| 58 | Pitfall of an Initial Rate Study:  On the Kinetics and Mechanism of the Reaction of Periodate with Iodide Ions in a Slightly Acidic Medium. Journal of Physical Chemistry A, 2007, 111, 890-896. | 2.5 | 13 |
| 59 | Inherent Pitfalls in the Simplified Evaluation of Kinetic Curves. Journal of Physical Chemistry A, 2007, 111, 8104-8109. | 2.5 | 16 |
| 60 | Kinetics and Mechanism of the Oxidation of Tetrathionate by Iodine in a Slightly Acidic Medium. Journal of Physical Chemistry A, 2007, 111, 4235-4241. | 2.5 | 19 |
| 61 | Three Autocatalysts and Self-Inhibition in a Single Reaction:Â A Detailed Mechanism of the Chloriteâ^'Tetrathionate Reaction. Inorganic Chemistry, 2006, 45, 9877-9883. | 4.0 | 44 |
| 62 | Unexpected Formation of Higher Polythionates in the Oxidation of Thiosulfate by Hypochlorous Acid in a Slightly Acidic Medium. Journal of Physical Chemistry B, 2006, 110, 2467-2470. | 2.6 | 21 |
| 63 | Kinetics and Mechanism of the Oxidation of Sulfite by Chlorine Dioxide in a Slightly Acidic Medium. Journal of Physical Chemistry A, 2006, 110, 4753-4758. | 2.5 | 29 |
| 64 | A Three-Variable Model for the Explanation of the "Supercatalytic―Effect of Hydrogen Ion in the Chloriteâ^'Tetrathionate Reaction. Journal of Physical Chemistry A, 2005, 109, 5124-5128. | 2.5 | 20 |
| 65 | Autocatalysis and Self-Inhibition:Â Coupled Kinetic Phenomena in the Chloriteâ^'Tetrathionate Reaction. Journal of the American Chemical Society, 2004, 126, 6246-6247. | 13.7 | 38 |
| 66 | Kinetics and Mechanism of the Decomposition of Chlorous Acid. Journal of Physical Chemistry A, 2003, 107, 6966-6973. | 2.5 | 56 |
| 67 | Kinetics and Mechanism of the Chlorine Dioxide-Tetrathionate Reaction. Journal of Physical Chemistry A, 2003, 107, 10063-10068. | 2.5 | 29 |
| 68 | Oscillatory Photochemical Decomposition of Tetrathionate Ion. Journal of the American Chemical Society, 2002, 124, 10956-10957. | 13.7 | 34 |
| 69 | Kinetics and mechanism of the reaction between hypochlorous acid and tetrathionate ion. International Journal of Chemical Kinetics, 2000, 32, 395-402. | 1.6 | 23 |
| 70 | Improved calibration and use of stopped-flow instruments. Physical Chemistry Chemical Physics, 2000, 2, 2575-2586. | 2.8 | 20 |
| 71 | Kinetics of Photoresponse of the Chlorine Dioxide-Iodine-Malonic Acid Reaction. Journal of Physical Chemistry A, 2000, 104, 5766-5769. | 2.5 | 23 |
| 72 | Kinetics and mechanism of the reaction between hypochlorous acid and tetrathionate ion. International Journal of Chemical Kinetics, 2000, 32, 395-402. | 1.6 | 1 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Control of Turing Structures by Periodic Illumination. Physical Review Letters, 1999, 83, 2950-2952. | 7.8 | 92 |
| 74 | Kinetics and Mechanism of the Reaction between Thiosulfate and Chlorine Dioxide. Journal of Physical Chemistry A, 1998, 102, 7267-7272. | 2.5 | 35 |
| 75 | Bistability in the nitric acid-hydroxylamine CSTR system. International Journal of Chemical Kinetics, 1994, 26, 991-996. | 1.6 | 5 |