

Qing-Yu Gao

List of Publications by Year in descending order

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87
papers

1,908
citations

430442

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276539

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91
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91
docs citations

91
times ranked

2068
citing authors

#	ARTICLE	IF	CITATIONS
1	The pH dependence of emulsifying properties for glutathione disulfide at oil-water interfaces. <i>Biophysical Chemistry</i> , 2022, 282, 106748.	1.5	0
2	Nanogel Crosslinking-Based Belousovâ€“Zhabotinsky Self-Oscillating Polyacrylamide Gel with Improved Mechanical Properties and Fast Oscillatory Response. <i>Journal of Physical Chemistry B</i> , 2022, 126, 1108-1114.	1.2	2
3	Enhancement Effect of Chemisorbed Sulfate toward Electrochemical Oxidation of Ethanol on Platinum Electrodes. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3397-3403.	1.5	8
4	Heterogeneity-driven collective-motion patterns of active gels. <i>Cell Reports Physical Science</i> , 2022, 3, 100933.	2.8	3
5	Inâ€“Situ Corrosion Fabrication of NaNbO ₃ /Nb ₃ O ₇ F Heterojunctions with Optimized Band Realignment for Enhanced Photocatalytic Hydrogen Evolution. <i>Chemistry - A European Journal</i> , 2021, 27, 4683-4690.	1.7	1
6	The Briggsâ€“Rauscher Reaction: A Demonstration of Sequential Spatiotemporal Patterns. <i>Journal of Chemical Education</i> , 2021, 98, 665-668.	1.1	9
7	In Situ Electrochemical AFM: Travelling Waves and Pit Growth during Au Dissolution. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1943-1943.	0.0	0
8	Kinetics on the Oxidation of Aminoiminomethanesulfonic Acid by Hypochlorous Acid: A Novel Product in the Chlorination of Aminoiminomethanesulfonic Acid. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 3158-3164.	1.0	0
9	Rotational Locomotion of an Active Gel Driven by Internal Chemical Signals. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11987-11991.	2.1	5
10	Mesoscopic Pitting Oscillation-Induced Periodic Anodic Layer Electrodissolution of Au(111). <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12062-12066.	2.1	2
11	Modulation Effects of Permanganate and Manganese(II) Ions on the Oscillatory Dynamics in a Bromateâ€“Sulfite Reaction System. <i>Journal of Physical Chemistry A</i> , 2020, 124, 618-624.	1.1	1
12	Pit-Induced Electrochemical Layer Dissolution and Wave Propagation on an Au(111) Surface in an Acidic Thiourea Solution. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19112-19118.	1.5	3
13	Chemomechanical origin of directed locomotion driven by internal chemical signals. <i>Science Advances</i> , 2020, 6, eaaz9125.	4.7	16
14	Programmed Locomotion of an Active Gel Driven by Spiral Waves. <i>Angewandte Chemie</i> , 2020, 132, 7172-7178.	1.6	3
15	Programmed Locomotion of an Active Gel Driven by Spiral Waves. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7106-7112.	7.2	5
16	Capillarity-Induced Propagation Reversal of Chemical Waves in a Self-oscillating Gel. <i>Journal of Physical Chemistry A</i> , 2020, 124, 3530-3534.	1.1	3
17	On the Kinetics and Mechanism of the Thiourea Dioxideâ€“Periodate Autocatalysis-Driven Iodine-Clock Reaction. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7582-7589.	1.1	7
18	Phthalimide-based â€œDâ€“Nâ€“Aâ€“emitters with thermally activated delayed fluorescence and isomer-dependent room-temperature phosphorescence properties. <i>Chemical Communications</i> , 2019, 55, 12172-12175.	2.2	21

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19	Effect of Reaction Parameters on the Wavelength of Pulse Waves in the Belousovâ€Zhabotinsky Reactionâ€Diffusion System. <i>Journal of Physical Chemistry A</i> , 2019, 123, 9292-9297.	1.1	4
20	A stable anionic metalâ€organic framework with open coordinated sites: selective separation toward cationic dyes and sensing properties. <i>CrystEngComm</i> , 2019, 21, 1159-1167.	1.3	42
21	Kinetics and Mechanism of the Concurrent Reactions of Hexathionate with S(IV) and Thiosulfate in a Slightly Acidic Medium. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5418-5427.	1.1	6
22	Exact Concentration Dependence of the Landolt Time in the Thiourea Dioxideâ€Bromate Substrate-Depletive Clock Reaction. <i>Journal of Physical Chemistry A</i> , 2019, 123, 3959-3968.	1.1	10
23	Autocatalysis-Driven Clock Reaction III: Clarifying the Kinetics and Mechanism of the Thiourea Dioxideâ€Iodate Reaction in an Acidic Medium. <i>Journal of Physical Chemistry A</i> , 2019, 123, 1740-1748.	1.1	9
24	Photoinduced Oscillations and Pulse Waves in the Hydrogen Peroxideâ€Sulfiteâ€Ferrocyanide Reaction. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1175-1184.	1.1	3
25	Solventâ€Controlled Synthesis of Highly Luminescent Carbon Dots with a Wide Color Gamut and Narrowed Emission Peak Widths. <i>Small</i> , 2018, 14, e1800612.	5.2	449
26	Four 3D coordination polymers based on layers with single <i>syn</i> â€ <i>anti</i> carboxylate bridges: synthesis, structures, and magnetic properties. <i>RSC Advances</i> , 2018, 8, 14101-14108.	1.7	13
27	Chemisorbed Oxygen-Species-Mediated Electrocatalytic Oxidation of Thiourea and Thiosulfate. <i>Journal of Physical Chemistry C</i> , 2018, 122, 24150-24157.	1.5	7
28	Wavelet multi-resolution approximation for multiobjective optimal control. <i>PLoS ONE</i> , 2018, 13, e0201514.	1.1	0
29	Kinetics of the Two-Stage Oxidation of Sulfide by Chlorine Dioxide. <i>Inorganic Chemistry</i> , 2018, 57, 10189-10198.	1.9	10
30	Periodic Transition between Breathing Spots and Synchronous Sulfur Deposition/Dissolution in Transpassive Region of the Electroâ€Oxidation of Sulfide on Platinum. <i>ChemElectroChem</i> , 2017, 4, 2075-2078.	1.7	0
31	Photoâ€Controlled Waves and Active Locomotion. <i>Chemistry - A European Journal</i> , 2017, 23, 11181-11188.	1.7	7
32	Facile synthesis of red-emitting carbon dots from pulp-free lemon juice for bioimaging. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5272-5277.	2.9	209
33	Frontispiece: Photoâ€Controlled Waves and Active Locomotion. <i>Chemistry - A European Journal</i> , 2017, 23, .	1.7	0
34	Autocatalytic Oxidation of Trithionate by Iodate in a Strongly Acidic Medium. <i>Journal of Physical Chemistry A</i> , 2017, 121, 8189-8196.	1.1	1
35	Highly Efficient Red-Emitting Carbon Dots with Gram-Scale Yield for Bioimaging. <i>Langmuir</i> , 2017, 33, 12635-12642.	1.6	222
36	Chlorine dioxide-induced and Congo red-inhibited Marangoni effect on the chlorite-trithionate reaction front. <i>Chaos</i> , 2017, 27, 104610.	1.0	3

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37	2D carboxylate-bridged Ln ^{III} coordination polymers: displaying slow magnetic relaxation and luminescence properties in the detection of Fe ³⁺ , Cr ₂ O ₇ ²⁻ and nitrobenzene. Dalton Transactions, 2017, 46, 13878-13887.	1.6	51
38	Autonomous reciprocating migration of an active material. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8704-8709.	3.3	23
39	Study on launch scheme of space-net capturing system. PLoS ONE, 2017, 12, e0183770.	1.1	9
40	Convection-Induced Fingering Fronts in the Chlorite–Trithionate Reaction. Journal of Physical Chemistry A, 2016, 120, 2514-2520.	1.1	11
41	Retrograde and Direct Wave Locomotion in a Photosensitive Self-Oscillating Gel. Angewandte Chemie - International Edition, 2016, 55, 14301-14305.	7.2	20
42	Dynamics modelling and ground test of space nets. , 2016, , .		3
43	The Key Heterolysis Selectivity of Divalent Sulfur–Sulfur Bonds for a Unified Mechanistic Scheme in the Thiosulfatolysis and Sulfitolysis of the Pentathionate Ion. European Journal of Inorganic Chemistry, 2016, 2016, 5497-5503.	1.0	5
44	Retrograde and Direct Wave Locomotion in a Photosensitive Self-Oscillating Gel. Angewandte Chemie, 2016, 128, 14513-14517.	1.6	9
45	Light-Modulated Intermittent Wave Groups in a Diffusively Fed Reactive Gel. Angewandte Chemie - International Edition, 2016, 55, 4988-4991.	7.2	9
46	Hydrothermal impregnation synthesis of cobalt pentlandite as anode material of H ₂ S SOFC. Ionics, 2016, 22, 743-749.	1.2	1
47	Kinetics of the Benzaldehyde-Inhibited Oxidation of Sulfite by Chlorine Dioxide. Inorganic Chemistry, 2016, 55, 366-370.	1.9	6
48	The fabrication of a supra-amphiphile for dissipative self-assembly. Chemical Science, 2016, 7, 1151-1155.	3.7	76
49	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.	1.0	8
50	Experimental, numerical, and mechanistic analysis of the nonmonotonic relationship between oscillatory frequency and photointensity for the photosensitive Belousov–Zhabotinsky oscillator. Chaos, 2015, 25, 064607.	1.0	17
51	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.	1.1	8
52	Antibacterial activities of polythionates enhanced by carbonates. MedChemComm, 2015, 6, 1643-1648.	3.5	3
53	Effects of species concentration and external resistance on spatiotemporal dynamics during the electro-oxidation of sulfide ion on a platinum disk electrode. Journal of Solid State Electrochemistry, 2015, 19, 3265-3276.	1.2	9
54	Diffusion-induced periodic transition between oscillatory modes in amplitude-modulated patterns. Chaos, 2014, 24, 023109.	1.0	6

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55	Novel type of chimera spiral waves arising from decoupling of a diffusible component. <i>Journal of Chemical Physics</i> , 2014, 141, 024110.	1.2	17
56	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. <i>Talanta</i> , 2014, 120, 10-16.	2.9	7
57	Recent Developments in the Chemistry of Thiourea Oxides. <i>Chemistry - A European Journal</i> , 2014, 20, 14164-14176.	1.7	44
58	A New System for Studying Spatial Front Instabilities: The Supercatalytic Chlorite–Trithionate Reaction. <i>Journal of Physical Chemistry A</i> , 2014, 118, 815-821.	1.1	5
59	Kinetic Evidence of Tautomerism of Thiourea Dioxide in Aqueous Acidic Solutions. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 1875-1879.	1.0	11
60	Oscillatory electro-oxidation of thiosulfate on gold. <i>Electrochimica Acta</i> , 2014, 133, 308-315.	2.6	23
61	The effect of chloride on spatiotemporal dynamics in the electro-oxidation of sulfide on platinum. <i>Electrochimica Acta</i> , 2013, 98, 116-122.	2.6	14
62	Multiple Length Scale Instabilities of Unidirectional Pulse Propagation in a Diffusion-Fed Gel. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3891-3896.	2.1	9
63	Kinetics and Mechanism of the Alkaline Decomposition of Hexathionate Ion. <i>Journal of Physical Chemistry A</i> , 2013, 117, 2924-2931.	1.1	10
64	Photophobic and phototropic movement of a self-oscillating gel. <i>Chemical Communications</i> , 2013, 49, 7690.	2.2	49
65	Pattern formation in the iodate–sulfite–thiosulfate reaction–diffusion system. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 131-137.	1.3	33
66	Kinetic study on hydrolysis and oxidation of formamidine disulfide in acidic solutions. <i>Science China Chemistry</i> , 2012, 55, 235-241.	4.2	19
67	Spatiotemporal Pattern Formation in the Oscillatory Electro-Oxidation of Sulfide on a Platinum Disk. <i>Journal of Physical Chemistry C</i> , 2011, 115, 12965-12971.	1.5	12
68	Kinetics and Mechanism of Alkaline Decomposition of the Pentathionate Ion by the Simultaneous Tracking of Different Sulfur Species by High-Performance Liquid Chromatography. <i>Inorganic Chemistry</i> , 2011, 50, 9670-9677.	1.9	16
69	High Performance Liquid Chromatography Study on the Kinetics and Mechanism of Chlorite–Thiosulfate Reaction in Slightly Alkaline Medium. <i>Journal of Physical Chemistry A</i> , 2011, 115, 1853-1860.	1.1	14
70	Control of stochastic spike motion in an excitable system via recycled noise. <i>Science China Chemistry</i> , 2011, 54, 1504-1509.	4.2	4
71	Temperature-Induced Bifurcations in the Cu(II)-Catalyzed and Catalyst-Free Hydrogen Peroxide-Thiosulfate Oscillating Reaction. <i>Journal of Physical Chemistry A</i> , 2010, 114, 7014-7020.	1.1	23
72	Oxygen–Sulfur Species Distribution and Kinetic Analysis in the Hydrogen Peroxide–Thiosulfate System. <i>Inorganic Chemistry</i> , 2010, 49, 6026-6034.	1.9	33

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73	Arm splitting and backfiring of spiral waves in media displaying local mixed-mode oscillations. <i>Chaos</i> , 2009, 19, 013135.	1.0	2
74	Oscillations and Mechanistic Analysis of the Chlorite-Sulfide Reaction in a Continuous-Flow Stirred Tank Reactor. <i>Journal of Physical Chemistry A</i> , 2009, 113, 1231-1234.	1.1	10
75	Temperature Oscillations, Complex Oscillations, and Elimination of Extraordinary Temperature Sensitivity in the Iodate-Sulfite-Thiosulfate Flow System. <i>Journal of Physical Chemistry A</i> , 2009, 113, 11295-11300.	1.1	11
76	Spiral instabilities in media supporting complex oscillations under periodic forcing. <i>Chaos</i> , 2009, 19, 033134.	1.0	6
77	Current oscillations during the electrochemical oxidation of sulfide in the presence of an external resistor. <i>Science in China Series B: Chemistry</i> , 2008, 51, 333-340.	0.8	8
78	The Transition from pH Waves to Iodine Waves in the Iodate/Sulfite/Thiosulfate Reaction-Diffusion System. <i>ChemPhysChem</i> , 2008, 9, 1153-1157.	1.0	6
79	Simultaneous Tracking of Sulfur Species in the Oxidation of Thiourea by Hydrogen Peroxide. <i>Journal of Physical Chemistry A</i> , 2008, 112, 5771-5773.	1.1	34
80	Dynamic Complexity in the Electrochemical Oxidation of Thiourea. <i>Journal of Physical Chemistry A</i> , 2008, 112, 6578-6585.	1.1	13
81	Oxidation and Decomposition Kinetics of Thiourea Oxides. <i>Journal of Physical Chemistry A</i> , 2007, 111, 872-877.	1.1	29
82	Period-doubling and chaotic oscillations in the ferroin-catalyzed Belousov-Zhabotinsky reaction in a CSTR. <i>Science in China Series B: Chemistry</i> , 2007, 50, 205-211.	0.8	6
83	Dynamic Instabilities and Mechanism of the Electrochemical Oxidation of Thiosulfate. <i>Journal of Physical Chemistry B</i> , 2006, 110, 26098-26104.	1.2	19
84	Nonlinear phenomena in the electrochemical oxidation of sulfide. <i>Electrochemistry Communications</i> , 2005, 7, 1471-1476.	2.3	21
85	A transition from propagating fronts to target patterns in the hydrogen peroxide-sulfite-thiosulfate medium. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 5389-5395.	1.3	5
86	General Model for the Nonlinear pH Dynamics in the Oxidation of Sulfur(IV) Species. <i>Journal of Physical Chemistry A</i> , 2000, 104, 11561-11565.	1.1	15
87	Peptide-modulated pH rhythms. <i>ChemPhysChem</i> , 0, , .	1.0	3