

Hiroyuki H Kitahata

List of Publications by Year in descending order

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139
papers

2,351
citations

236833

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41
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145
all docs

145
docs citations

145
times ranked

1274
citing authors

#	ARTICLE	IF	CITATIONS
1	Mode selection in the spontaneous motion of an alcohol droplet. <i>Physical Review E</i> , 2005, 71, 065301.	0.8	162
2	Physicochemical design and analysis of self-propelled objects that are characteristically sensitive to environments. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10326-10338.	1.3	100
3	Convective and periodic motion driven by a chemical wave. <i>Journal of Chemical Physics</i> , 2002, 116, 5666-5672.	1.2	94
4	Quantitative Estimation of the Parameters for Self-Motion Driven by Difference in Surface Tension. <i>Langmuir</i> , 2014, 30, 8101-8108.	1.6	70
5	Drift instability in the motion of a fluid droplet with a chemically reactive surface driven by Marangoni flow. <i>Physical Review E</i> , 2012, 86, 016108.	0.8	69
6	Spontaneous motion of a droplet coupled with a chemical wave. <i>Physical Review E</i> , 2011, 84, 015101.	0.8	68
7	Self-motion of a camphor disk coupled with convection. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 2409.	1.3	62
8	Chemosensitive running droplet. <i>Physical Review E</i> , 2005, 72, 041603.	0.8	62
9	Mode-Switching of the Self-Motion of a Camphor Boat Depending on the Diffusion Distance of Camphor Molecules. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9876-9882.	1.5	54
10	Oscillation and Synchronization in the Combustion of Candles. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8164-8168.	1.1	53
11	Synchronized Sailing of Two Camphor Boats in Polygonal Chambers. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1798-1802.	1.2	48
12	Mathematical modeling of frogs' calling behavior and its possible application to artificial life and robotics. <i>Artificial Life and Robotics</i> , 2008, 12, 29-32.	0.7	40
13	Chemo-mechanical energy transduction through interfacial instability. <i>Physica D: Nonlinear Phenomena</i> , 2005, 205, 283-291.	1.3	38
14	Spontaneous Deformation of an Oil Droplet Induced by the Cooperative Transport of Cationic and Anionic Surfactants through the Interface. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15709-15714.	1.2	37
15	Suppression and Regeneration of Camphor-Driven Marangoni Flow with the Addition of Sodium Dodecyl Sulfate. <i>Journal of Physical Chemistry B</i> , 2012, 116, 992-996.	1.2	37
16	Spontaneous motion of an elliptic camphor particle. <i>Physical Review E</i> , 2013, 87, 010901.	0.8	37
17	Blebbing dynamics in an oil-water-surfactant system through the generation and destruction of a gel-like structure. <i>Physical Review E</i> , 2007, 76, 055202.	0.8	35
18	Liquid/liquid dynamic phase separation induced by a focused laser. <i>Applied Physics Letters</i> , 2003, 83, 2557-2559.	1.5	33

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19	Relationship between the size of a camphor-driven rotor and its angular velocity. <i>Physical Review E</i> , 2017, 96, 012609.	0.8	33
20	Unpinning of a spiral wave anchored around a circular obstacle by an external wave train: Common aspects of a chemical reaction and cardiomyocyte tissue. <i>Chaos</i> , 2009, 19, 043114.	1.0	31
21	Acceleration or deceleration of self-motion by the Marangoni effect. <i>Chemical Physics Letters</i> , 2016, 654, 92-96.	1.2	30
22	Effective diffusion coefficient including the Marangoni effect. <i>Journal of Chemical Physics</i> , 2018, 148, 134906.	1.2	30
23	Chemical Reaction-Inspired Crystal Growth of a Coordination Polymer toward Morphology Design and Control. <i>Journal of the American Chemical Society</i> , 2006, 128, 15799-15808.	6.6	29
24	Theoretical study on the translation and rotation of an elliptic camphor particle. <i>Physica D: Nonlinear Phenomena</i> , 2014, 272, 39-50.	1.3	28
25	Oscillatory motion of a camphor grain in a one-dimensional finite region. <i>Physical Review E</i> , 2016, 94, 042215.	0.8	28
26	Deformable Self-Propelled Micro-Object Comprising Underwater Oil Droplets. <i>Scientific Reports</i> , 2016, 6, 31292.	1.6	26
27	Synchronized motion of a mobile boundary driven by a camphor fragment. <i>Journal of Colloid and Interface Science</i> , 2004, 279, 503-508.	5.0	25
28	Microfreight Delivered by Chemical Waves. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3032-3035.	1.5	25
29	Self-Propelled Motion of Monodisperse Underwater Oil Droplets Formed by a Microfluidic Device. <i>Langmuir</i> , 2017, 33, 5393-5397.	1.6	24
30	Dynamical blebbing at a droplet interface driven by instability in elastic stress: a novel self-motile system. <i>Soft Matter</i> , 2011, 7, 3204.	1.2	23
31	Spontaneous Motion of a Belousov-Zhabotinsky Reaction Droplet Coupled with a Spiral Wave. <i>Chemistry Letters</i> , 2012, 41, 1052-1054.	0.7	23
32	Rotational motion of a droplet induced by interfacial tension. <i>Physical Review E</i> , 2013, 87, 013009.	0.8	23
33	Pulse-density modulation control of chemical oscillation far from equilibrium in a droplet open-reactor system. <i>Nature Communications</i> , 2016, 7, 10212.	5.8	23
34	Numerical and comparative three-dimensional structural analysis of peripheral nerve fibres in epidermis of patients with atopic dermatitis. <i>British Journal of Dermatology</i> , 2016, 174, 191-194.	1.4	23
35	Mathematical Modeling of Calcium Waves Induced by Mechanical Stimulation in Keratinocytes. <i>PLoS ONE</i> , 2014, 9, e92650.	1.1	21
36	Experimental and theoretical studies on the self-motion of a phenanthroline disk coupled with complex formation. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1557.	1.3	20

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37	Rotational motion of a camphor disk in a circular region. <i>Physical Review E</i> , 2019, 99, 022211.	0.8	20
38	Formation of a Multiscale Aggregate Structure through Spontaneous Blebbing of an Interface. <i>Langmuir</i> , 2012, 28, 3378-3384.	1.6	19
39	Mathematical model for calcium-assisted epidermal homeostasis. <i>Journal of Theoretical Biology</i> , 2016, 397, 52-60.	0.8	18
40	Period of Oscillatory Motion of a Camphor Boat Determined by the Dissolution and Diffusion of Camphor Molecules. <i>Journal of Physical Chemistry B</i> , 2018, 122, 2610-2615.	1.2	18
41	Multiple Autonomous Motions Synchronized with Complex Formation. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10557-10559.	1.2	17
42	Survival versus collapse: Abrupt drop of excitability kills the traveling pulse, while gradual change results in adaptation. <i>Physical Review E</i> , 2007, 76, 016205.	0.8	17
43	High-aspect-ratio gold nanorods synthesized in a surfactant gel phase. <i>Chemical Physics Letters</i> , 2009, 467, 327-330.	1.2	17
44	Control of the Self-Motion of a Ruthenium-Catalyzed Belousovâ€“Zhabotinsky Droplet. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26805-26809.	1.5	17
45	Elimination of a spiral wave pinned at an obstacle by a train of plane waves: Effect of diffusion between obstacles and surrounding media. <i>Chaos</i> , 2015, 25, 103127.	1.0	17
46	Large-scale on-off switching of genetic activity mediated by the folding-unfolding transition in a giant DNA molecule: An hypothesis. <i>Physical Review E</i> , 2008, 77, 031905.	0.8	16
47	Photoexcited Chemical Wave in the Ruthenium-Catalyzed Belousovâ€“Zhabotinsky Reaction. <i>Journal of Physical Chemistry A</i> , 2011, 115, 7406-7412.	1.1	16
48	Motion with Memory of a Self-Propelled Object. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24490-24495.	1.5	16
49	Interaction of non-radially symmetric camphor particles. <i>Physica D: Nonlinear Phenomena</i> , 2018, 366, 10-26.	1.3	16
50	Dynamical Calling Behavior Experimentally Observed in Japanese Tree Frogs (<i>Hyla japonica</i>). <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2007, E90-A, 2154-2161.	0.2	15
51	Distinguishing the Dynamic Fingerprints of Two- and Three-Dimensional Chemical Waves in Microbeads. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1967-1971.	1.1	14
52	Interplay between epidermal stem cell dynamics and dermal deformation. <i>Npj Computational Materials</i> , 2018, 4, .	3.5	14
53	Effects of surfactant concentration on formation of high-aspect-ratio gold nanorods. <i>Journal of Colloid and Interface Science</i> , 2013, 407, 265-272.	5.0	13
54	Plastic bottle oscillator: Rhythmicity and mode bifurcation of fluid flow. <i>American Journal of Physics</i> , 2007, 75, 893-895.	0.3	12

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55	Mathematical model for self-propelled droplets driven by interfacial tension. <i>Journal of Chemical Physics</i> , 2016, 144, 114707.	1.2	12
56	Dynamic QRS-complex and ST-segment monitoring by continuous vectorcardiography during carotid endarterectomy. <i>British Journal of Anaesthesia</i> , 2003, 90, 142-147.	1.5	11
57	Oscillation of a water surface in contact with a fixed camphor disk. <i>Chemical Physics Letters</i> , 2008, 457, 254-258.	1.2	11
58	Homogenization of a phase-separated droplet in a polymer mixture caused by the dielectric effect of a laser. <i>Physical Review E</i> , 2008, 78, 060801.	0.8	11
59	Analysis of the growth process of gold nanorods with time-resolved observation. <i>Physical Review E</i> , 2009, 80, 020601.	0.8	11
60	Stationary pattern formation in a discrete excitable system with strong inhibitory coupling. <i>Physical Review E</i> , 2009, 79, 056203.	0.8	11
61	Relaxation dynamics of the Marangoni convection roll structure induced by camphor concentration gradient. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 520, 436-441.	2.3	11
62	Power law observed in the motion of an asymmetric camphor boat under viscous conditions. <i>Physical Review E</i> , 2018, 98, 022606.	0.8	11
63	Dynamical phase separation under laser scanning. <i>Chemical Physics Letters</i> , 2005, 402, 529-534.	1.2	10
64	Propagation of Photosensitive Chemical Waves on the Circular Routes. <i>Journal of Physical Chemistry A</i> , 2005, 109, 4973-4978.	1.1	10
65	Oscillation of a rotating levitated droplet: Analysis with a mechanical model. <i>Physical Review E</i> , 2015, 92, 062904.	0.8	10
66	Hydrodynamic collective effects of active proteins in biological membranes. <i>Physical Review E</i> , 2016, 94, 022416.	0.8	10
67	Reciprocating Motion of a Self-Propelled Rotor Induced by Forced Halt and Release Operations. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3482-3487.	1.5	10
68	Two Floating Camphor Particles Interacting through the Lateral Capillary Force. <i>Journal of the Physical Society of Japan</i> , 2020, 89, 074004.	0.7	10
69	Imperfect bifurcation in the rotation of a propeller-shaped camphor rotor. <i>Physical Review E</i> , 2021, 103, 012202.	0.8	10
70	Spontaneous Motion of a Camphor Particle with a Triangular Modification from a Circle. <i>Journal of the Physical Society of Japan</i> , 2020, 89, .	0.7	10
71	The Influence of a gradient static magnetic field on an unstirred Belousovâ€ŽZhabotinsky reaction. <i>Bioelectromagnetics</i> , 2008, 29, 598-604.	0.9	9
72	Growth of gold nanorods in gelled surfactant solutions. <i>Journal of Colloid and Interface Science</i> , 2011, 356, 111-117.	5.0	9

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73	Frontiers in epidermal barrier homeostasis – an approach to mathematical modelling of epidermal calcium dynamics. <i>Experimental Dermatology</i> , 2014, 23, 79-82.	1.4	9
74	Effect of gold nanoparticles on chemical oscillators: A comparative study of the experimental and simulated results. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 460, 236-239.	2.3	9
75	General criteria for determining rotation or oscillation in a two-dimensional axisymmetric system. <i>Journal of Chemical Physics</i> , 2015, 143, 014117.	1.2	9
76	Selection of the Rotation Direction for a Camphor Disk Resulting from Chiral Asymmetry of a Water Chamber. <i>Journal of Physical Chemistry B</i> , 2016, 120, 9166-9172.	1.2	9
77	Mechanism of Spontaneous Blebbing Motion of an Oil–Water Interface: Elastic Stress Generated by a Lamellar–Lamellar Transition. <i>Langmuir</i> , 2016, 32, 2891-2899.	1.6	9
78	Start of Micrometer-Sized Oil Droplet Motion through Generation of Surfactants. <i>Langmuir</i> , 2019, 35, 13351-13355.	1.6	9
79	Chemically artificial rovers based on self-propelled droplets in micrometer-scale environment. <i>Current Opinion in Colloid and Interface Science</i> , 2020, 49, 60-68.	3.4	9
80	Rhythmic bursting in a cluster of microbeads driven by a continuous-wave laser beam. <i>Physical Review E</i> , 2002, 65, 045202.	0.8	8
81	Slowing and Stopping of Chemical Waves in a Narrowing Canal. <i>Journal of Physical Chemistry B</i> , 2004, 108, 18956-18959.	1.2	8
82	Interactive Propagation of Photosensitive Chemical Waves on Two Circular Routes. <i>Journal of Physical Chemistry A</i> , 2006, 110, 3633-3637.	1.1	8
83	Oscillation in Penetration Distance in a Train of Chemical Pulses Propagating in an Optically Constrained Narrowing Channel. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10405-10409.	1.1	8
84	Delayed Response of Interfacial Tension in Propagating Chemical Waves of the Belousov–Zhabotinsky Reaction without Stirring. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13893-13898.	1.2	8
85	Spontaneous deformation and fission of oil droplets on an aqueous surfactant solution. <i>Physical Review E</i> , 2020, 102, 042603.	0.8	8
86	Chemical Resonance, Beats, and Frequency Locking in Forced Chemical Oscillatory Systems. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3014-3019.	2.1	8
87	Change in the Mode of Spontaneous Motion of an Alcohol Droplet Caused by a Temperature Change. <i>Progress of Theoretical Physics Supplement</i> , 2006, 161, 286-289.	0.2	7
88	Spontaneous Motion of a Droplet Coupled with Chemical Reaction. <i>Progress of Theoretical Physics Supplement</i> , 2006, 161, 220-223.	0.2	7
89	Rhythmic oscillation and dynamic instability of micrometer-size phase separation under continuous photon flux by a focused laser. <i>Physical Review E</i> , 2008, 78, 046214.	0.8	7
90	Mathematical analysis of intercellular calcium propagation induced by adenosine triphosphate. <i>Skin Research and Technology</i> , 2010, 16, 146-150.	0.8	7

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91	Coexistence of Wave Propagation and Oscillation in the Photosensitive Belousovâ€™Zhabotinsky Reaction on a Circular Route. <i>Journal of Physical Chemistry A</i> , 2006, 110, 13475-13478.	1.1	6
92	Synchronized motion of the water surfaces around two fixed camphor disks. <i>Journal of Colloid and Interface Science</i> , 2010, 351, 299-303.	5.0	6
93	Phase-separated binary polymers spin coated onto microwrinkles. <i>RSC Advances</i> , 2012, 2, 2395.	1.7	6
94	Effects of medium flow on axon growth with or without nerve growth factor. <i>Biochemical and Biophysical Research Communications</i> , 2015, 465, 26-29.	1.0	6
95	Hydrodynamic Effects in Oscillatory Active Nematics. <i>Journal of the Physical Society of Japan</i> , 2017, 86, 101013.	0.7	6
96	Bifurcation in the angular velocity of a circular disk propelled by symmetrically distributed camphor pills. <i>Chaos</i> , 2019, 29, 013125.	1.0	6
97	Diffusion enhancement in a levitated droplet via oscillatory deformation. <i>Physical Review E</i> , 2020, 102, 033109.	0.8	6
98	Collagen XVII deficiency alters epidermal patterning. <i>Laboratory Investigation</i> , 2022, 102, 581-588.	1.7	6
99	Mode bifurcation by pouring water into a cup. <i>Journal of Chemical Physics</i> , 2003, 119, 4811-4816.	1.2	5
100	Phase Wave between Two Oscillators in the Photosensitive Belousovâ€™Zhabotinsky Reaction Depending on the Difference in the Illumination Time. <i>Journal of Physical Chemistry A</i> , 2010, 114, 9124-9129.	1.1	5
101	Plastic bottle oscillator as an on-off-type oscillator: Experiments, modeling, and stability analyses of single and coupled systems. <i>Physical Review E</i> , 2012, 85, 026204.	0.8	5
102	Dynamics of Droplets. , 2013, , 85-118.		5
103	Transient Reciprocating Motion of a Self-Propelled Object Controlled by a Molecular Layer of a <i>N</i> -Stearoyl- <i>p</i> -nitroaniline: Dependence on the Temperature of an Aqueous Phase. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14888-14893.	1.5	5
104	Achilles' heel of a traveling pulse subject to a local external stimulus. <i>Physical Review E</i> , 2017, 95, 062209.	0.8	5
105	Inversion probability of three-bladed self-propelled rotors after forced stops of different durations. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 13123-13128.	1.3	5
106	On a simple model that explains inversion of a self-propelled rotor under periodic stop-and-release-operations. <i>Chaos</i> , 2020, 30, 023105.	1.0	5
107	Fabrication of Microparticles with Frontâ€™Back Asymmetric Shapes Using Anisotropic Gelation. <i>Micromachines</i> , 2021, 12, 1121.	1.4	5
108	Self-propelled camphor disk dependent on the depth of the sodium dodecyl sulfate aqueous phase. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 635, 128087.	2.3	5

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109	Mode-switching in the flow of water into a cup. <i>Chemical Physics Letters</i> , 2002, 351, 379-384.	1.2	4
110	Spatio-temporal pattern formation with oscillatory chemical reaction and continuous photon flux on a micrometre scale. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S4239-S4248.	0.7	4
111	Effect of a Gradient Static Magnetic Field on an Unstirred Belousovâ€”Zhabotinsky Reaction by Changing the Thickness of the Medium. <i>Journal of Physical Chemistry A</i> , 2009, 113, 3061-3067.	1.1	4
112	Control of the Long-axis Length of Gold Nanorods through Temperature Variation. <i>Chemistry Letters</i> , 2012, 41, 1173-1175.	0.7	4
113	Characteristic Features in the Collision of Chemical Waves Depending on the Aspect Ratio of a Rectangular Field. <i>Journal of Physical Chemistry A</i> , 2007, 111, 5833-5838.	1.1	3
114	Chemical Wave Propagation Preserved on an Inhibitory Field in the Ruthenium-Catalyzed Belousovâ€”Zhabotinsky Reaction. <i>Journal of Physical Chemistry A</i> , 2013, 117, 10615-10618.	1.1	3
115	Modulation of the shape and speed of a chemical wave in an unstirred Belousovâ€”Zhabotinsky reaction by a rotating magnet. <i>Bioelectromagnetics</i> , 2013, 34, 220-230.	0.9	3
116	Model for calcium-mediated reduction of structural fluctuations in epidermis. <i>Physical Review E</i> , 2015, 92, 022709.	0.8	3
117	Coupling Between a Chemical Wave and Motion in a Belousov- Zhabotinsky Droplet. <i>Current Physical Chemistry</i> , 2015, 5, 82-90.	0.1	3
118	Response of a chemical wave to local pulse irradiation in the ruthenium-catalyzed Belousovâ€”Zhabotinsky reaction. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9148-9152.	1.3	3
119	Experimental and theoretical approach for the clustering of globally coupled density oscillators based on phase response. <i>Physical Review E</i> , 2016, 93, 012212.	0.8	3
120	Unidirectional motion of a camphor disk on water forced by interactions between surface camphor concentration and dynamically changing boundaries. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 18767-18772.	1.3	3
121	Sustained dynamics of a weakly excitable system with nonlocal interactions. <i>Physical Review E</i> , 2017, 96, 022213.	0.8	3
122	Traveling waves propagating through coupled microbeads in the Belousovâ€”Zhabotinsky reaction. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 24175-24179.	1.3	3
123	Spontaneous rhythmic motion of a polymer chain in a continuous-wave laser field. <i>Physical Review E</i> , 2004, 70, 021910.	0.8	2
124	Gelation Effect on the Synthesis of High-Aspect-Ratio Gold Nanorods. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 714-718.	0.9	2
125	Size distribution of cell pattern observed in gravitational instability. <i>Physical Review E</i> , 2013, 87, 012903.	0.8	2
126	Mathematical approach to unpinning of spiral waves anchored to an obstacle with high-frequency pacing. <i>Biophysics and Physicobiology</i> , 2018, 15, 196-203.	0.5	2

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127	Bifurcation analysis of a density oscillator using two-dimensional hydrodynamic simulation. <i>Physical Review E</i> , 2020, 101, 042216.	0.8	2
128	Rigid-body Rotation or Director Rotation? The Direct Observation Gave the Answer to the Question. <i>JPSJ News and Comments</i> , 2019, 16, 10.	0.2	2
129	Mode-bifurcation upon pouring water into a cup that depends on the shape of the cup. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 339, 45-51.	0.9	1
130	Emergence of Superstructures from a Homogeneous Lipid Sphere. <i>Journal of Physical Chemistry B</i> , 2009, 113, 3264-3268.	1.2	1
131	Spontaneous Recurrence of Deposition and Dissolution of a Solid Layer on a Solution Surface. <i>Journal of Physical Chemistry B</i> , 2015, 119, 9970-9974.	1.2	1
132	Local bifurcation structure of a bouncing ball system with a piecewise polynomial function for table displacement. <i>Chaos</i> , 2020, 30, 083128.	1.0	1
133	Self-Propelled Motion of the Camphor Float With n-Fold Rotational Symmetry. <i>Frontiers in Physics</i> , 2022, 10, .	1.0	1
134	Convective flow driven by chemical reaction. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	0
135	Spiral Waves Pinned to a Defect on Excitable Media: Toward Effective Defibrillators. <i>Seibutsu Butsuri</i> , 2017, 57, 191-195.	0.0	0
136	Insights into Active Matter from Coupled Oscillators. <i>JPSJ News and Comments</i> , 2017, 14, 12.	0.2	0
137	Spontaneous Motion of the Oil-water Interface Induced by the Generation of Surfactant Aggregates. <i>Hamon</i> , 2014, 24, 244-249.	0.0	0
138	From Camphor Particles Motion to Quorum Sensing of Living Organisms. <i>JPSJ News and Comments</i> , 2019, 16, 14.	0.2	0
139	Bifurcation structure of the flame oscillation. <i>Physical Review E</i> , 2022, 105, 044208.	0.8	0