

Hong Peng

List of Publications by Year in descending order

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149
papers

3,393
citations

109321

35
h-index

175258

52
g-index

153
all docs

153
docs citations

153
times ranked

1673
citing authors

#	ARTICLE	IF	CITATIONS
1	Fuzzy reasoning spiking neural P system for fault diagnosis. Information Sciences, 2013, 235, 106-116.	6.9	170
2	Weighted Fuzzy Spiking Neural P Systems. IEEE Transactions on Fuzzy Systems, 2013, 21, 209-220.	9.8	124
3	Fault Diagnosis of Power Systems Using Intuitionistic Fuzzy Spiking Neural P Systems. IEEE Transactions on Smart Grid, 2018, 9, 4777-4784.	9.0	108
4	Spiking neural P systems with multiple channels. Neural Networks, 2017, 95, 66-71.	5.9	104
5	Dynamic threshold neural P systems. Knowledge-Based Systems, 2019, 163, 875-884.	7.1	95
6	Coupled Neural P Systems. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1672-1682.	11.3	92
7	A weighted corrective fuzzy reasoning spiking neural P system for fault diagnosis in power systems with variable topologies. Engineering Applications of Artificial Intelligence, 2020, 92, 103680.	8.1	89
8	Nanobubbles Do Not Sit Alone at the Solid-Liquid Interface. Langmuir, 2013, 29, 6123-6130.	3.5	87
9	Image watermarking method in multiwavelet domain based on support vector machines. Journal of Systems and Software, 2010, 83, 1470-1477.	4.5	86
10	Spiking neural P systems with inhibitory rules. Knowledge-Based Systems, 2020, 188, 105064.	7.1	72
11	An unsupervised learning algorithm for membrane computing. Information Sciences, 2015, 304, 80-91.	6.9	71
12	Origin of Interfacial Nanoscopic Gaseous Domains and Formation of Dense Gas Layer at Hydrophobic Solid-Water Interface. Langmuir, 2013, 29, 15266-15274.	3.5	69
13	Medical Image Fusion Method Based on Coupled Neural P Systems in Nonsampled Shearlet Transform Domain. International Journal of Neural Systems, 2021, 31, 2050050.	5.2	68
14	Membrane computing and image processing: a short survey. Journal of Membrane Computing, 2019, 1, 58-73.	1.8	66
15	Progress on the Surface Nanobubble Story: What is in the bubble? Why does it exist?. Advances in Colloid and Interface Science, 2015, 222, 573-580.	14.7	65
16	Nonlinear Spiking Neural P Systems. International Journal of Neural Systems, 2020, 30, 2050008.	5.2	64
17	Multiobjective fuzzy clustering approach based on tissue-like membrane systems. Knowledge-Based Systems, 2017, 125, 74-82.	7.1	63
18	A novel fusion method based on dynamic threshold neural P systems and nonsampled contourlet transform for multi-modality medical images. Signal Processing, 2021, 178, 107793.	3.7	62

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19	Interval-valued fuzzy spiking neural P systems for fault diagnosis of power transmission networks. <i>Engineering Applications of Artificial Intelligence</i> , 2019, 82, 102-109.	8.1	53
20	Dendrite P systems. <i>Neural Networks</i> , 2020, 127, 110-120.	5.9	53
21	An automatic clustering algorithm inspired by membrane computing. <i>Pattern Recognition Letters</i> , 2015, 68, 34-40.	4.2	50
22	An optimal image watermarking approach based on a multi-objective genetic algorithm. <i>Information Sciences</i> , 2011, 181, 5501-5514.	6.9	49
23	An Extended Membrane System with Active Membranes to Solve Automatic Fuzzy Clustering Problems. <i>International Journal of Neural Systems</i> , 2016, 26, 1650004.	5.2	49
24	Membrane computing model for IIR filter design. <i>Information Sciences</i> , 2016, 329, 164-176.	6.9	46
25	A novel image thresholding method based on membrane computing and fuzzy entropy. <i>Journal of Intelligent and Fuzzy Systems</i> , 2013, 24, 229-237.	1.4	45
26	Synergetic effect of pyrite on strengthening bornite bioleaching by <i>Leptospirillum ferriphilum</i> . <i>Hydrometallurgy</i> , 2018, 176, 9-16.	4.3	43
27	Adaptive fuzzy spiking neural P systems for fuzzy inference and learning. <i>International Journal of Computer Mathematics</i> , 2013, 90, 857-868.	1.8	42
28	Fault diagnosis of power systems using fuzzy tissue-like P systems. <i>Integrated Computer-Aided Engineering</i> , 2017, 24, 401-411.	4.6	42
29	Spiking Neural P Systems with Delay on Synapses. <i>International Journal of Neural Systems</i> , 2021, 31, 2050042.	5.2	41
30	Spiking neural P systems with multiple channels and anti-spikes. <i>BioSystems</i> , 2018, 169-170, 13-19.	2.0	38
31	LSTM-SNP: A long short-term memory model inspired from spiking neural P systems. <i>Knowledge-Based Systems</i> , 2022, 235, 107656.	7.1	38
32	Multi-focus image fusion based on dynamic threshold neural P systems and surfacelet transform. <i>Knowledge-Based Systems</i> , 2020, 196, 105794.	7.1	37
33	The impact of line tension on the contact angle of nanodroplets. <i>Molecular Simulation</i> , 2014, 40, 934-941.	2.0	36
34	Degradation of ethyl xanthate in flotation residues by hydrogen peroxide. <i>Journal of Central South University</i> , 2015, 22, 495-501.	3.0	36
35	The effect of thermal activation of kaolinite on its dissolution and re-precipitation as zeolites in alkaline aluminate solution. <i>Applied Clay Science</i> , 2018, 157, 189-197.	5.2	36
36	Modeling Fault Propagation Paths in Power Systems: A New Framework Based on Event SNP Systems With Neurotransmitter Concentration. <i>IEEE Access</i> , 2019, 7, 12798-12808.	4.2	35

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37	Red-mud based porous nanocatalysts for valorisation of municipal solid waste. Journal of Hazardous Materials, 2020, 396, 122711.	12.4	35
38	Characterisation and hydrometallurgical processing of nickel from tropical agromined bio-ore. Hydrometallurgy, 2017, 169, 346-355.	4.3	34
39	A learning-based audio watermarking scheme using kernel Fisher discriminant analysis. , 2013, 23, 382-389.		33
40	Optimal multi-level thresholding with membrane computing. , 2015, 37, 53-64.		33
41	Determination of contact angle by molecular simulation using number and atomic density contours. Molecular Simulation, 2012, 38, 945-952.	2.0	32
42	Multi-focus image fusion approach based on CNP systems in NSCT domain. Computer Vision and Image Understanding, 2021, 210, 103228.	4.7	32
43	A Fault Diagnosis Method of Power Systems Based on an Improved Adaptive Fuzzy Spiking Neural P Systems and PSO Algorithms. Chinese Journal of Electronics, 2016, 25, 320-327.	1.5	30
44	Competitive Spiking Neural P Systems With Rules on Synapses. IEEE Transactions on Nanobioscience, 2017, 16, 888-895.	3.3	30
45	Analysis of bacterial community in bulking sludge using culture-dependent and -independent approaches. Journal of Environmental Sciences, 2011, 23, 1880-1887.	6.1	28
46	Cooperative effect of chalcopyrite and bornite interactions during bioleaching by mixed moderately thermophilic culture. Minerals Engineering, 2016, 95, 116-123.	4.3	28
47	The Anion Effect on Zeolite Linde Type A to Sodalite Phase Transformation. Industrial & Engineering Chemistry Research, 2018, 57, 10292-10302.	3.7	27
48	Role of the Amorphous Phase during Sodium Aluminosilicate Precipitation. Industrial & Engineering Chemistry Research, 2018, 57, 1408-1416.	3.7	25
49	kNN-P: A kNN classifier optimized by P systems. Theoretical Computer Science, 2020, 817, 55-65.	0.9	25
50	The framework of P systems applied to solve optimal watermarking problem. Signal Processing, 2014, 101, 256-265.	3.7	23
51	Spiking Neural P Systems with Extended Channel Rules. International Journal of Neural Systems, 2021, 31, 2050049.	5.2	22
52	Spiking neural P systems with autapses. Information Sciences, 2021, 570, 383-402.	6.9	22
53	Multivariate time series forecasting method based on nonlinear spiking neural P systems and non-subsampled shearlet transform. Neural Networks, 2022, 152, 300-310.	5.9	21
54	The Activation Mechanism of Bi ³⁺ Ions to Rutile Flotation in a Strong Acidic Environment. Minerals (Basel, Switzerland), 2017, 7, 113.	2.0	20

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55	Aluminate effect on desilication product phase transformation. <i>Journal of Crystal Growth</i> , 2018, 492, 84-91.	1.5	20
56	An unsupervised segmentation method based on dynamic threshold neural P systems for color images. <i>Information Sciences</i> , 2022, 587, 473-484.	6.9	20
57	A Time Series Forecasting Approach Based on Nonlinear Spiking Neural Systems. <i>International Journal of Neural Systems</i> , 2022, 32, 2250020.	5.2	19
58	Selective depression mechanism of ferric chromium lignin sulfonate for chalcopyrite-galena flotation separation. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2018, 25, 489-497.	4.9	17
59	A Novel Blind Image Watermarking Scheme Based on Support Vector Machine in DCT Domain. , 2008, , .		16
60	A link between viscosity and cation-anion contact pairs: Adventure on the concept of structure-making/breaking for concentrated salt solutions. <i>Journal of Molecular Liquids</i> , 2018, 263, 109-117.	4.9	16
61	Supervisory control of discrete event systems under asynchronous spiking neuron P systems. <i>Information Sciences</i> , 2022, 597, 253-273.	6.9	16
62	The Sandy Desilication Product Process Concept. <i>Jom</i> , 2019, 71, 2928-2935.	1.9	15
63	The cation effect on adsorption of surfactant in the froth flotation of low-grade diasporic bauxite. <i>Minerals Engineering</i> , 2019, 144, 106051.	4.3	15
64	Acid Leaching of Desilication Products: Implications for Acid Neutralization of Bauxite Residue. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 8174-8182.	3.7	15
65	Reliability evaluation of distribution network based on fuzzy spiking neural P system with self-synapse. <i>Journal of Membrane Computing</i> , 2021, 3, 51-62.	1.8	15
66	Evaluation of interfacial properties of concentrated KCl solutions by molecular dynamics simulation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 538, 703-710.	4.7	14
67	Small universal asynchronous spiking neural P systems with multiple channels. <i>Neurocomputing</i> , 2020, 378, 1-8.	5.9	14
68	Computational power of sequential spiking neural P systems with multiple channels. <i>Journal of Membrane Computing</i> , 2021, 3, 270-283.	1.8	14
69	The anion effect on sodium aluminosilicates formed under Bayer process digestion conditions. <i>Hydrometallurgy</i> , 2020, 192, 105236.	4.3	13
70	An optimal operation method of cascade hydro-PV-pumped storage generation system based on multi-objective stochastic numerical P systems. <i>Journal of Renewable and Sustainable Energy</i> , 2021, 13, .	2.0	13
71	Gated Spiking Neural P Systems for Time Series Forecasting. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2023, 34, 6227-6236.	11.3	13
72	Quantitative Analysis of Aqueous Nanofilm Rupture by Molecular Dynamic Simulation. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1035-1042.	2.6	12

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73	Numerical P systems with Boolean condition. Theoretical Computer Science, 2019, 785, 140-149.	0.9	12
74	Sequential dynamic threshold neural P systems. Journal of Membrane Computing, 2020, 2, 255-268.	1.8	12
75	Medical image fusion based on DTNP systems and Laplacian pyramid. Journal of Membrane Computing, 2021, 3, 284-295.	1.8	12
76	ConvSNP: a deep learning model embedded with SNP-like neurons. Journal of Membrane Computing, 2022, 4, 87-95.	1.8	12
77	A novel edge detection method based on dynamic threshold neural P systems with orientation. , 2022, 127, 103526.		12
78	Document Classification Based on Support Vector Machine Using a Concept Vector Model. , 2006, , .		11
79	A Novel Clustering Algorithm Inspired by Membrane Computing. Scientific World Journal, The, 2015, 2015, 1-8.	2.1	11
80	A Fragile Watermarking Scheme Based on Hash Function for Web Pages. , 2011, , .		9
81	A hybrid approach based on tissue P systems and artificial bee colony for IIR system identification. Neural Computing and Applications, 2017, 28, 2675-2685.	5.6	9
82	On the Mechanism of Sodic Removal from Bauxite Residue and Bauxite Desilication Products (BDP) Using Acetic Acid. Jom, 2020, 72, 309-318.	1.9	9
83	Optimal audio watermarking scheme using genetic optimization. Annales Des Telecommunications/Annals of Telecommunications, 2011, 66, 307-318.	2.5	8
84	Audio watermarking scheme robust against desynchronization attacks based on kernel clustering. Multimedia Tools and Applications, 2013, 62, 681-699.	3.9	8
85	A Watermarking-Based Host Correlation Detection Scheme. , 2009, , .		7
86	On Small Universality of Spiking Neural P Systems with Multiple Channels. Lecture Notes in Computer Science, 2019, , 229-245.	1.3	7
87	Nucleation phenomena of supersaturated KCl solutions revealing by molecular dynamic simulation: Implication of dehydration shell process. Journal of Molecular Liquids, 2019, 283, 108-115.	4.9	7
88	Spiking neural P systems with structural plasticity and anti-spikes. Theoretical Computer Science, 2020, 801, 143-156.	0.9	7
89	Keyphrases Extraction from Web Document by the Least Squares Support Vector Machine. , 0, , .		6
90	A weighted test-area method for calculating surface tension. Molecular Simulation, 2013, 39, 129-136.	2.0	6

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91	Influence of chloride on sodium aluminosilicate solubility in Bayer liquor. Microporous and Mesoporous Materials, 2020, 299, 110086.	4.4	6
92	Stochastic Numerical P Systems With Application in Data Clustering Problems. IEEE Access, 2020, 8, 31507-31518.	4.2	6
93	A Fragile Watermarking Scheme for Tamper-Proof of Web Pages. , 2009, , .		5
94	A Semi-fragile Image Watermarking Resisting to JPEG Compression. , 2009, , .		5
95	Solubility of Tricalcium Aluminate in Synthetic Spent Bayer Liquor. Industrial & Engineering Chemistry Research, 2014, 53, 17499-17505.	3.7	5
96	Spiking neural P systems with multiple channels and polarizations. BioSystems, 2019, 185, 104020.	2.0	5
97	Subsampling-Based Wavelet Watermarking Algorithm Using Support Vector Regression. , 2007, , .		4
98	Adaptive Watermarking Algorithm Using SVR in Wavelet Domain. , 2007, , .		4
99	A Color Image Watermarking Scheme in Wavelet Domain Based on Support Vector Machines. , 2008, , .		4
100	Fuzzy knowledge representation based on an improving spiking neural P system. , 2010, , .		4
101	Chaos Time Series Prediction Based on Membrane Optimization Algorithms. Scientific World Journal, The, 2015, 2015, 1-14.	2.1	4
102	Leaching Kinetics of Thermally-Activated, High Silica Bauxite. Minerals, Metals and Materials Series, 2019, , 11-17.	0.4	4
103	In-Situ XRD Investigation of Bauxite Dehydroxylation. Minerals, Metals and Materials Series, 2018, , 21-29.	0.4	4
104	Adaptive Image Watermarking Approach Based on Kernel Clustering and HVS. Lecture Notes in Computer Science, 2009, , 213-220.	1.3	4
105	Fault Diagnosis of Power Systems Based on Triangular Fuzzy Spiking Neural P Systems. Communications in Computer and Information Science, 2016, , 385-398.	0.5	4
106	Timed spiking neural P systems. , 2010, , .		3
107	Knowledge representation and reasoning based on FRSN P system. , 2011, , .		3
108	Parallel Implementation of P Systems for Data Clustering on GPU. Communications in Computer and Information Science, 2015, , 200-211.	0.5	3

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109	Computational power of dynamic threshold neural P systems for generating string languages. Theoretical Computer Science, 2021, 851, 77-91.	0.9	3
110	Computational power of sequential dendrite P systems. Theoretical Computer Science, 2021, 893, 133-133.	0.9	3
111	A Spectral Clustering Algorithm Improved by P Systems. International Journal of Computers, Communications and Control, 2018, 13, 759-771.	1.8	3
112	Small Universal Numerical P Systems with Thresholds for Computing Functions. Fundamenta Informaticae, 2020, 176, 43-59.	0.4	3
113	Computational completeness of spiking neural P systems with inhibitory rules for generating string languages. Theoretical Computer Science, 2022, 920, 64-75.	0.9	3
114	Nonlinear System Identification Based on Multi-resolution Support Vector Regression. , 0, , .		2
115	Automatic keyphrases extraction from document using backpropagation. , 2005, , .		2
116	Ensemble Learning for Keyphrases Extraction from Scientific Document. Lecture Notes in Computer Science, 2006, , 1267-1272.	1.3	2
117	A Fragile Watermarking Scheme Based on SVD for Web Pages. , 2009, , .		2
118	An Adaptive Audio Watermarking Method Based on Local Audio Feature and Support Vector Regression. , 2009, , .		2
119	Cell-Like Fuzzy P System and Its Application of Coordination Control in Micro-grid. Communications in Computer and Information Science, 2015, , 18-32.	0.5	2
120	A kNN classifier optimized by P systems. , 2017, , .		2
121	Effect of Alkalinity on Zeolite LTN Formation under Bayer Process Pre-desilication Conditions. Industrial & Engineering Chemistry Research, 2021, 60, 10119-10128.	3.7	2
122	Progress on the Recovery of Critical Raw Materials. Jom, 2022, 74, 1932.	1.9	2
123	Dynamic threshold P systems with delay on synapses for shortest path problems. Theoretical Computer Science, 2022, 926, 62-70.	0.9	2
124	Research for a Dynamic Recurrent Fuzzy Wavelet Network. , 2006, , .		1
125	A Kind of Online Support Vector Machine for Blind Multi-user Detection. , 2006, , .		1
126	Adaptive Fuzzy Wavelet Control for a Class of Uncertain Nonlinear Systems. , 2006, , .		1

#	ARTICLE	IF	CITATIONS
127	An Information Hiding Algorithm Based on Blocks and Scrambling. , 2009, , .		1
128	Adaptive spiking neural P systems. , 2010, , .		1
129	A novel framework of tissue membrane systems for image fusion. Bio-Medical Materials and Engineering, 2014, 24, 3259-3266.	0.6	1
130	A Kernel-Based Membrane Clustering Algorithm. Lecture Notes in Computer Science, 2018, , 318-329.	1.3	1
131	Advances in Process Metallurgy. Jom, 2021, 73, 1629-1630.	1.9	1
132	Computational completeness of sequential spiking neural P systems with inhibitory rules. Information and Computation, 2021, 281, 104786.	0.7	1
133	Nonlinear neural P systems for generating string languages. Information and Computation, 2021, 281, 104789.	0.7	1
134	Filtering E-Mail Based on Fuzzy Support Vector Machines and Aggregation Operator. Lecture Notes in Computer Science, 2006, , 882-891.	1.3	1
135	How Ferric Salt Enhances the First-Stage Acidic Leaching of Chalcocite: Performance of Intermediate Crystallite. Jom, 2022, 74, 1969-1977.	1.9	1
136	Multi-scale Wavelet Support Vector Regression for Soft Sensor Modeling. , 0, , .		0
137	Support Vector Regression Based on Scaling Reproducing Kernel for Black-Box System Identification. , 2006, , .		0
138	A Robust Watermarking Scheme Based on Audio Features in Multiwavelet Domain. , 2008, , .		0
139	A Fragile Software Watermarking for Tamper-Proof. , 2009, , .		0
140	AN ADAPTIVE IMAGE WATERMARKING SCHEME BASED ON HUMAN VISUAL SYSTEM AND SUPPORT VECTOR MACHINE. , 2009, , .		0
141	On the optimal solution of primal optimization problem of one-class SVM. , 2011, , .		0
142	A Novel Feature Extraction Method. Procedia Engineering, 2012, 29, 1196-1200.	1.2	0
143	The Implementation of Membrane Clustering Algorithm Based on FPGA. Communications in Computer and Information Science, 2016, , 237-248.	0.5	0
144	Position Control for PM Synchronous Motor Using Fuzzy Neural Network. Lecture Notes in Computer Science, 2005, , 179-184.	1.3	0

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145	Constructing Multi-resolution Support Vector Regression Modelling. Lecture Notes in Computer Science, 2005, , 942-945.	1.3	0
146	Nonlinear System Identification Using Multi-resolution Reproducing Kernel Based Support Vector Regression. Lecture Notes in Computer Science, 2006, , 790-795.	1.3	0
147	A Hybrid Method Based on Tissue Membrane Systems and Velocity-Position Model for Image Thresholding. , 0, , .		0
148	Matrix Representation of Parallel Computation for Spiking Neural P Systems. Communications in Computer and Information Science, 2016, , 187-199.	0.5	0
149	Inhibition of Kaolinite Dissolution in Bayer Liquor Through Lithium Addition. Minerals, Metals and Materials Series, 2020, , 33-39.	0.4	0