Hong Peng

List of Publications by Year
in descending order

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	Gated Spiking Neural P Systems for Time Series Forecasting. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 6227-6236.	11.3	13
2	LSTM-SNP: A long short-term memory model inspired from spiking neural P systems. Knowledge-Based Systems, 2022, 235, 107656.	7.1	38
3	An unsupervised segmentation method based on dynamic threshold neural P systems for color images. Information Sciences, 2022, 587, 473-484.	6.9	20
4	How Ferric Salt Enhances the First-Stage Acidic Leaching of Chalcocite: Performance of Intermediate Crystallite. Jom, 2022, 74, 1969-1977.	1.9	1
5	Computational completeness of spiking neural P systems with inhibitory rules for generating string languages. Theoretical Computer Science, 2022, 920, 64-75.	0.9	3
6	ConvSNP: a deep learning model embedded with SNP-like neurons. Journal of Membrane Computing, 2022, 4, 87-95.	1.8	12
7	A Time Series Forecasting Approach Based on Nonlinear Spiking Neural Systems. International Journal of Neural Systems, 2022, 32, 2250020.	5.2	19
8	Progress on the Recovery of Critical Raw Materials. Jom, 2022, 74, 1932.	1.9	2
9	Supervisory control of discrete event systems under asynchronous spiking neuron P systems. Information Sciences, 2022, 597, 253-273.	6.9	16
10	A novel edge detection method based on dynamic threshold neural P systems with orientation. , 2022, 127, 103526.		12
11	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
12	Dynamic threshold P systems with delay on synapses for shortest path problems. Theoretical Computer Science, 2022, 926, 62-70.	0.9	2
13	Reliability evaluation of distribution network based on fuzzy spiking neural P system with self-synapse. Journal of Membrane Computing, 2021, 3, 51-62.	1.8	15
14	Spiking Neural P Systems with Delay on Synapses. International Journal of Neural Systems, 2021, 31, 2050042.	5.2	41
15	A novel fusion method based on dynamic threshold neural P systems and nonsubsampled contourlet transform for multi-modality medical images. Signal Processing, 2021, 178, 107793.	3.7	62
16	Computational power of dynamic threshold neural P systems for generating string languages. Theoretical Computer Science, 2021, 851, 77-91.	0.9	3
17	Medical Image Fusion Method Based on Coupled Neural P Systems in Nonsubsampled Shearlet Transform Domain. International Journal of Neural Systems, 2021, 31, 2050050.	5.2	68
18	Spiking Neural P Systems with Extended Channel Rules. International Journal of Neural Systems, 2021, 31, 2050049.	5.2	22

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19	An optimal operation method of cascade hydro-PV-pumped storage generation system based on multi-objective stochastic numerical P systems. Journal of Renewable and Sustainable Energy, 2021, 13, .	2.0	13
20	Advances in Process Metallurgy. Jom, 2021, 73, 1629-1630.	1.9	1
21	Effect of Alkalinity on Zeolite LTN Formation under Bayer Process Pre-desilication Conditions. Industrial & Engineering Chemistry Research, 2021, 60, 10119-10128.	3.7	2
22	Computational completeness of sequential spiking neural P systems with inhibitory rules. Information and Computation, 2021, 281, 104786.	0.7	1
23	Computational power of sequential dendrite P systems. Theoretical Computer Science, 2021, 893, 133-133.	0.9	3
24	Nonlinear neural P systems for generating string languages. Information and Computation, 2021, 281, 104789.	0.7	1
25	Multi-focus image fusion approach based on CNP systems in NSCT domain. Computer Vision and Image Understanding, 2021, 210, 103228.	4.7	32
26	Spiking neural P systems with autapses. Information Sciences, 2021, 570, 383-402.	6.9	22
27	Medical image fusion based on DTNP systems and Laplacian pyramid. Journal of Membrane Computing, 2021, 3, 284-295.	1.8	12
28	Computational power of sequential spiking neural P systems with multiple channels. Journal of Membrane Computing, 2021, 3, 270-283.	1.8	14
29	Spiking neural P systems with structural plasticity and anti-spikes. Theoretical Computer Science, 2020, 801, 143-156.	0.9	7
30	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
31	Spiking neural P systems with inhibitory rules. Knowledge-Based Systems, 2020, 188, 105064.	7.1	72
32	kNN-P: A kNN classifier optimized by P systems. Theoretical Computer Science, 2020, 817, 55-65.	0.9	25
33	Small universal asynchronous spiking neural P systems with multiple channels. Neurocomputing, 2020, 378, 1-8.	5.9	14
34	The anion effect on sodium aluminosilicates formed under Bayer process digestion conditions. Hydrometallurgy, 2020, 192, 105236.	4.3	13
35	Nonlinear Spiking Neural P Systems. International Journal of Neural Systems, 2020, 30, 2050008.	5.2	64
36	Sequential dynamic threshold neural P systems. Journal of Membrane Computing, 2020, 2, 255-268.	1.8	12

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37	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
38	Influence of chloride on sodium aluminosilicate solubility in Bayer liquor. Microporous and Mesoporous Materials, 2020, 299, 110086.	4.4	6
39	Stochastic Numerical P Systems With Application in Data Clustering Problems. IEEE Access, 2020, 8, 31507-31518.	4.2	6
40	Red-mud based porous nanocatalysts for valorisation of municipal solid waste. Journal of Hazardous Materials, 2020, 396, 122711.	12.4	35
41	Acid Leaching of Desilication Products: Implications for Acid Neutralization of Bauxite Residue. Industrial & Engineering Chemistry Research, 2020, 59, 8174-8182.	3.7	15
42	Dendrite P systems. Neural Networks, 2020, 127, 110-120.	5.9	53
43	Multi-focus image fusion based on dynamic threshold neural P systems and surfacelet transform. Knowledge-Based Systems, 2020, 196, 105794.	7.1	37
44	Inhibition of Kaolinite Dissolution in Bayer Liquor Through Lithium Addition. Minerals, Metals and Materials Series, 2020, , 33-39.	0.4	0
45	Small Universal Numerical P Systems with Thresholds for Computing Functions. Fundamenta Informaticae, 2020, 176, 43-59.	0.4	3
46	The Sandy Desilication Product Process Concept. Jom, 2019, 71, 2928-2935.	1.9	15
47	Spiking neural P systems with multiple channels and polarizations. BioSystems, 2019, 185, 104020.	2.0	5
48	The cation effect on adsorption of surfactant in the froth flotation of low-grade diasporic bauxite. Minerals Engineering, 2019, 144, 106051.	4.3	15
49	Numerical P systems with Boolean condition. Theoretical Computer Science, 2019, 785, 140-149.	0.9	12
50	On Small Universality of Spiking Neural P Systems with Multiple Channels. Lecture Notes in Computer Science, 2019, , 229-245.	1.3	7
51	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
52	Membrane computing and image processing: a short survey. Journal of Membrane Computing, 2019, 1, 58-73.	1.8	66
53	Interval-valued fuzzy spiking neural P systems for fault diagnosis of power transmission networks. Engineering Applications of Artificial Intelligence, 2019, 82, 102-109.	8.1	53
54	Leaching Kinetics of Thermally-Activated, High Silica Bauxite. Minerals, Metals and Materials Series, 2019, , 11-17.	0.4	4

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55	Coupled Neural P Systems. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1672-1682.	11.3	92
56	Modeling Fault Propagation Paths in Power Systems: A New Framework Based on Event SNP Systems With Neurotransmitter Concentration. IEEE Access, 2019, 7, 12798-12808.	4.2	35
57	Dynamic threshold neural P systems. Knowledge-Based Systems, 2019, 163, 875-884.	7.1	95
58	Role of the Amorphous Phase during Sodium Aluminosilicate Precipitation. Industrial & Engineering Chemistry Research, 2018, 57, 1408-1416.	3.7	25
59	Aluminate effect on desilication product phase transformation. Journal of Crystal Growth, 2018, 492, 84-91.	1.5	20
60	The effect of thermal activation of kaolinite on its dissolution and re-precipitation as zeolites in alkaline aluminate solution. Applied Clay Science, 2018, 157, 189-197.	5.2	36
61	Fault Diagnosis of Power Systems Using Intuitionistic Fuzzy Spiking Neural P Systems. IEEE Transactions on Smart Grid, 2018, 9, 4777-4784.	9.0	108
62	Evaluation of interfacial properties of concentrated KCl solutions by molecular dynamics simulation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 538, 703-710.	4.7	14
63	A Kernel-Based Membrane Clustering Algorithm. Lecture Notes in Computer Science, 2018, , 318-329.	1.3	1
64	Spiking neural P systems with multiple channels and anti-spikes. BioSystems, 2018, 169-170, 13-19.	2.0	38
65	A link between viscosity and cation-anion contact pairs: Adventure on the concept of structure-making/breaking for concentrated salt solutions. Journal of Molecular Liquids, 2018, 263, 109-117.	4.9	16
66	The Anion Effect on Zeolite Linde Type A to Sodalite Phase Transformation. Industrial & Engineering Chemistry Research, 2018, 57, 10292-10302.	3.7	27
67	Selective depression mechanism of ferric chromium lignin sulfonate for chalcopyriteâ€"galena flotation separation. International Journal of Minerals, Metallurgy and Materials, 2018, 25, 489-497.	4.9	17
68	In-Situ XRD Investigation of Bauxite Dehydroxylation. Minerals, Metals and Materials Series, 2018, , 21-29.	0.4	4
69	Synergetic effect of pyrite on strengthening bornite bioleaching by Leptospirillum ferriphilum. Hydrometallurgy, 2018, 176, 9-16.	4.3	43
70	A Spectral Clustering Algorithm Improved by P Systems. International Journal of Computers, Communications and Control, 2018, 13, 759-771.	1.8	3
71	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
72	Characterisation and hydrometallurgical processing of nickel from tropical agromined bio-ore. Hydrometallurgy, 2017, 169, 346-355.	4.3	34

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73	Multiobjective fuzzy clustering approach based on tissue-like membrane systems. Knowledge-Based Systems, 2017, 125, 74-82.	7.1	63
74	Spiking neural P systems with multiple channels. Neural Networks, 2017, 95, 66-71.	5.9	104
75	Competitive Spiking Neural P Systems With Rules on Synapses. IEEE Transactions on Nanobioscience, 2017, 16, 888-895.	3.3	30
76	Fault diagnosis of power systems using fuzzy tissue-like P systems. Integrated Computer-Aided Engineering, 2017, 24, 401-411.	4.6	42
77	The Activation Mechanism of Bi3+ Ions to Rutile Flotation in a Strong Acidic Environment. Minerals (Basel, Switzerland), 2017, 7, 113.	2.0	20
78	A kNN classifier optimized by P systems. , 2017, , .		2
79	Cooperative effect of chalcopyrite and bornite interactions during bioleaching by mixed moderately thermophilic culture. Minerals Engineering, 2016, 95, 116-123.	4.3	28
80	The Implementation of Membrane Clustering Algorithm Based on FPGA. Communications in Computer and Information Science, 2016, , 237-248.	0.5	0
81	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
82	An Extended Membrane System with Active Membranes to Solve Automatic Fuzzy Clustering Problems. International Journal of Neural Systems, 2016, 26, 1650004.	5.2	49
83	Membrane computing model for IIR filter design. Information Sciences, 2016, 329, 164-176.	6.9	46
84	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
85	Matrix Representation of Parallel Computation for Spiking Neural P Systems. Communications in Computer and Information Science, 2016, , 187-199.	0.5	0
86	Chaos Time Series Prediction Based on Membrane Optimization Algorithms. Scientific World Journal, The, 2015, 2015, 1-14.	2.1	4
87	A Novel Clustering Algorithm Inspired by Membrane Computing. Scientific World Journal, The, 2015, 2015, 1-8.	2.1	11
88	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
89	Parallel Implementation of P Systems for Data Clustering on GPU. Communications in Computer and Information Science, 2015, , 200-211.	0.5	3
90	An unsupervised learning algorithm for membrane computing. Information Sciences, 2015, 304, 80-91.	6.9	71

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91	Optimal multi-level thresholding with membrane computing. , 2015, 37, 53-64.		33
92	Degradation of ethyl xanthate in flotation residues by hydrogen peroxide. Journal of Central South University, 2015, 22, 495-501.	3.0	36
93	An automatic clustering algorithm inspired by membrane computing. Pattern Recognition Letters, 2015, 68, 34-40.	4.2	50
94	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
95	A novel framework of tissue membrane systems for image fusion. Bio-Medical Materials and Engineering, 2014, 24, 3259-3266.	0.6	1
96	The impact of line tension on the contact angle of nanodroplets. Molecular Simulation, 2014, 40, 934-941.	2.0	36
97	Solubility of Tricalcium Aluminate in Synthetic Spent Bayer Liquor. Industrial & Engineering Chemistry Research, 2014, 53, 17499-17505.	3.7	5
98	The framework of P systems applied to solve optimal watermarking problem. Signal Processing, 2014, 101, 256-265.	3.7	23
99	Nanobubbles Do Not Sit Alone at the Solid–Liquid Interface. Langmuir, 2013, 29, 6123-6130.	3.5	87
100	Audio watermarking scheme robust against desynchronization attacks based on kernel clustering. Multimedia Tools and Applications, 2013, 62, 681-699.	3.9	8
101	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
102	Weighted Fuzzy Spiking Neural P Systems. IEEE Transactions on Fuzzy Systems, 2013, 21, 209-220.	9.8	124
103	Fuzzy reasoning spiking neural P system for fault diagnosis. Information Sciences, 2013, 235, 106-116.	6.9	170
104	A learning-based audio watermarking scheme using kernel Fisher discriminant analysis. , 2013, 23, 382-389.		33
105	Adaptive fuzzy spiking neural P systems for fuzzy inference and learning. International Journal of Computer Mathematics, 2013, 90, 857-868.	1.8	42
106	A weighted test-area method for calculating surface tension. Molecular Simulation, 2013, 39, 129-136.	2.0	6
107	A novel image thresholding method based on membrane computing and fuzzy entropy. Journal of Intelligent and Fuzzy Systems, 2013, 24, 229-237.	1.4	45
108	Determination of contact angle by molecular simulation using number and atomic density contours. Molecular Simulation, 2012, 38, 945-952.	2.0	32

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109	Quantitative Analysis of Aqueous Nanofilm Rupture by Molecular Dynamic Simulation. Journal of Physical Chemistry B, 2012, 116, 1035-1042.	2.6	12
110	A Novel Feature Extraction Method. Procedia Engineering, 2012, 29, 1196-1200.	1.2	0
111	Knowledge representation and reasoning based on FRSN P system. , 2011, , .		3
112	A Fragile Watermarking Scheme Based on Hash Function for Web Pages. , 2011, , .		9
113	Analysis of bacterial community in bulking sludge using culture-dependent and -independent approaches. Journal of Environmental Sciences, 2011, 23, 1880-1887.	6.1	28
114	An optimal image watermarking approach based on a multi-objective genetic algorithm. Information Sciences, 2011, 181, 5501-5514.	6.9	49
115	Optimal audio watermarking scheme using genetic optimization. Annales Des Telecommunications/Annals of Telecommunications, 2011, 66, 307-318.	2.5	8
116	On the optimal solution of primal optimization problem of one-class SVM. , 2011, , .		0
117	Image watermarking method in multiwavelet domain based on support vector machines. Journal of Systems and Software, 2010, 83, 1470-1477.	4.5	86
118	Adaptive spiking neural P systems. , 2010, , .		1
119	Fuzzy knowledge representation based on an improving spiking neural P system. , 2010, , .		4
120	Timed spiking neural P systems. , 2010, , .		3
121	A Fragile Watermarking Scheme Based on SVD for Web Pages. , 2009, , .		2
122	A Fragile Software Watermarking for Tamper-Proof. , 2009, , .		0
123	An Adaptive Audio Watermarking Method Based on Local Audio Feature and Support Vector Regression. , 2009, , .		2
124	A Fragile Watermarking Scheme for Tamper-Proof of Web Pages. , 2009, , .		5
125	An Information Hiding Algorithm Based on Blocks and Scrambling. , 2009, , .		1
126	A Semi-fragile Image Watermarking Resisting to JPEG Compression. , 2009, , .		5

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127	A Watermarking-Based Host Correlation Detection Scheme. , 2009, , .		7
128	AN ADAPTIVE IMAGE WATERMARKING SCHEME BASED ON HUMAN VISUAL SYSTEM AND SUPPORT VECTOR MACHINE. , 2009, , .		0
129	Adaptive Image Watermarking Approach Based on Kernel Clustering and HVS. Lecture Notes in Computer Science, 2009, , 213-220.	1.3	4
130	A Novel Blind Image Watermarking Scheme Based on Support Vector Machine in DCT Domain. , 2008, , .		16
131	A Color Image Watermarking Scheme in Wavelet Domain Based on Support Vector Machines. , 2008, , .		4
132	A Robust Watermarking Scheme Based on Audio Features in Multiwavelet Domain. , 2008, , .		0
133	Subsampling-Based Wavelet Watermarking Algorithm Using Support Vector Regression. , 2007, , .		4
134	Adaptive Watermarking Algorithm Using SVR in Wavelet Domain. , 2007, , .		4
135	Document Classification Based on Support Vector Machine Using a Concept Vector Model. , 2006, , .		11
136	Support Vector Regression Based on Scaling Reproducing Kernel for Black-Box System Identification. , 2006, , .		0
137	Research for a Dynamic Recurrent Fuzzy Wavelet Network. , 2006, , .		1
138	A Kind of Online Support Vector Machine for Blind Multi-user Detection. , 2006, , .		1
139	Adaptive Fuzzy Wavelet Control for a Class of Uncertain Nonlinear Systems. , 2006, , .		1
140	Ensemble Learning for Keyphrases Extraction from Scientific Document. Lecture Notes in Computer Science, 2006, , 1267-1272.	1.3	2
141	Filtering E-Mail Based on Fuzzy Support Vector Machines and Aggregation Operator. Lecture Notes in Computer Science, 2006, , 882-891.	1.3	1
142	Nonlinear System Identification Using Multi-resolution Reproducing Kernel Based Support Vector Regression. Lecture Notes in Computer Science, 2006, , 790-795.	1.3	0
143	Automatic keyphrases extraction from document using backpropagation. , 2005, , .		2
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 Based on Multi-resolution Support Vector Regression. , 0, , .		2
147	Multi-scale Wavelet Support Vector Regression for Soft Sensor Modeling. , 0, , .		0
148	Keyphrases Extraction from Web Document by the Least Squares Support Vector Machine. , 0, , .		6
149	A Hybrid Method Based on Tissue Membrane Systems and Velocity-Position Model for Image Thresholding. , 0, , .		0