

Xiaohong Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99
papers

1,407
citations

21
h-index

34
g-index

106
ext. papers

1,659
ext. citations

3
avg. IF

5.87
L-index

#	Paper	IF	Citations
99	Grained matrix and complementary matrix: Novel methods for computing information descriptions in covering approximation spaces. <i>Information Sciences</i> , 2022 , 591, 68-87	7.7	1
98	On Cyclic Associative Semihypergroups and Neutrosophic Extended Triplet Cyclic Associative Semihypergroups. <i>Mathematics</i> , 2022 , 10, 535	2.3	5
97	A Class of BCI-Algebra and Quasi-Hyper BCI-Algebra. <i>Axioms</i> , 2022 , 11, 72	1.6	4
96	QM-BZ-Algebras and Quasi-Hyper BZ-Algebras. <i>Axioms</i> , 2022 , 11, 93	1.6	4
95	Two Open Problems on CA-Groupoids and Cancellativities of T2CA-Groupoids. <i>Axioms</i> , 2022 , 11, 169	1.6	1
94	Matrix approach for fuzzy description reduction and group decision-making with fuzzy \mathcal{E} -covering. <i>Information Sciences</i> , 2022 , 597, 53-85	7.7	1
93	Left (Right) Regular and Transposition Regular Semigroups and Their Structures. <i>Mathematics</i> , 2022 , 10, 1021	2.3	2
92	Transposition Regular AG-Groupoids and Their Decomposition Theorems. <i>Mathematics</i> , 2022 , 10, 1396	2.3	0
91	Interval-Valued Pseudo Overlap Functions and Application. <i>Axioms</i> , 2022 , 11, 216	1.6	0
90	A consensus model for hesitant fuzzy linguistic group decision-making in the framework of Dempster-Shafer evidence theory. <i>Knowledge-Based Systems</i> , 2021 , 212, 106559	7.3	20
89	. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 1-1	8.3	8
88	Intuitionistic Fuzzy (IF) Overlap Functions and IF-Rough Sets with Applications. <i>Symmetry</i> , 2021 , 13, 1494	2.7	4
87	Overlap Functions Based (Multi-Granulation) Fuzzy Rough Sets and Their Applications in MCDM. <i>Symmetry</i> , 2021 , 13, 1779	2.7	2
86	Fuzzy \mathcal{E} -covering approximation spaces. <i>International Journal of Approximate Reasoning</i> , 2020 , 126, 27-47	3.6	13
85	A Kind of Variation Symmetry: Tarski Associative Groupoids (TA-Groupoids) and Tarski Associative Neutrosophic Extended Triplet Groupoids (TA-NET-Groupoids). <i>Symmetry</i> , 2020 , 12, 714	2.7	0
84	On Neutrosophic Extended Triplet LA-hypergroups and Strong Pure LA-semihypergroups. <i>Symmetry</i> , 2020 , 12, 163	2.7	4
83	Some Results on Various Cancellative CA-Groupoids and Variant CA-Groupoids. <i>Symmetry</i> , 2020 , 12, 315	2.7	2

82	Regular CA-Groupoids and Cyclic Associative Neutrosophic Extended Triplet Groupoids (CA-NET-Groupoids) with Green Relations. <i>Mathematics</i> , 2020 , 8, 204	2.3	3
81	A novel approach to multi-criteria group decision-making problems based on linguistic D numbers. <i>Computational and Applied Mathematics</i> , 2020 , 39, 1	2.4	6
80	A new hesitant fuzzy linguistic approach for multiple attribute decision making based on Dempster-Shafer evidence theory. <i>Applied Soft Computing Journal</i> , 2020 , 86, 105897	7.5	28
79	PF-TOPSIS method based on CPFRS models: An application to unconventional emergency events. <i>Computers and Industrial Engineering</i> , 2020 , 139, 106192	6.4	37
78	Generalized Shapley probability neutrosophic hesitant fuzzy Choquet aggregation operators and their applications. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020 , 38, 3343-3357	1.6	
77	An Extended VIKOR Method for Multiple Attribute Decision Making with Linguistic D Numbers Based on Fuzzy Entropy. <i>International Journal of Information Technology and Decision Making</i> , 2020 , 19, 143-167	2.8	14
76	Filters in Strong BI-Algebras and Residuated Pseudo-SBI-Algebras. <i>Mathematics</i> , 2020 , 8, 1513	2.3	2
75	Covering based multigranulation fuzzy rough sets and corresponding applications. <i>Artificial Intelligence Review</i> , 2020 , 53, 1093-1126	9.7	32
74	Neutrosophic Extended Triplet Group Based on Neutrosophic Quadruple Numbers. <i>Symmetry</i> , 2019 , 11, 696	2.7	5
73	Involution Abel-Grassmann Groups and Filter Theory of Abel-Grassmann Groups. <i>Symmetry</i> , 2019 , 11, 553	2.7	2
72	On neutrosophic extended triplet groups (loops) and Abel-Grassmann groupoids (AG-groupoids). <i>Journal of Intelligent and Fuzzy Systems</i> , 2019 , 37, 5743-5753	1.6	13
71	Multi-Attribute Decision Making Based on Probabilistic Neutrosophic Hesitant Fuzzy Choquet Aggregation Operators. <i>Symmetry</i> , 2019 , 11, 623	2.7	9
70	A Multicriteria Decision-Making Approach with Linguistic D Numbers Based on the Choquet Integral. <i>Cognitive Computation</i> , 2019 , 11, 560-575	4.4	22
69	The Decomposition Theorems of AG-Neutrosophic Extended Triplet Loops and Strong AG-(l, l)-Loops. <i>Mathematics</i> , 2019 , 7, 268	2.3	19
68	Neutrosophic Triangular Norms and Their Derived Residuated Lattices. <i>Symmetry</i> , 2019 , 11, 817	2.7	2
67	Non-Dual Multi-Granulation Neutrosophic Rough Set with Applications. <i>Symmetry</i> , 2019 , 11, 910	2.7	2
66	Measures of Probabilistic Neutrosophic Hesitant Fuzzy Sets and the Application in Reducing Unnecessary Evaluation Processes. <i>Mathematics</i> , 2019 , 7, 649	2.3	6
65	Study on the Algebraic Structure of Refined Neutrosophic Numbers. <i>Symmetry</i> , 2019 , 11, 954	2.7	

64	On Two Conjectures of Abel Grassmann \mathbb{N} Groupoids. <i>Symmetry</i> , 2019 , 11, 816	2.7	2
63	A New Type of Single Valued Neutrosophic Covering Rough Set Model. <i>Symmetry</i> , 2019 , 11, 1074	2.7	2
62	Generalized Abel-Grassmann \mathbb{N} Neutrosophic Extended Triplet Loop. <i>Mathematics</i> , 2019 , 7, 1206	2.3	3
61	Symmetry in Hyperstructure: Neutrosophic Extended Triplet Semihypergroups and Regular Hypergroups. <i>Symmetry</i> , 2019 , 11, 1217	2.7	3
60	The Structure of Idempotents in Neutrosophic Rings and Neutrosophic Quadruple Rings. <i>Symmetry</i> , 2019 , 11, 1254	2.7	
59	Generalized Neutrosophic Extended Triplet Group. <i>Symmetry</i> , 2019 , 11, 327	2.7	21
58	Additive s-functional inequality and hom-derivations in Banach algebras. <i>Journal of Fixed Point Theory and Applications</i> , 2019 , 21, 1	1.4	9
57	Matrix approaches for some issues about minimal and maximal descriptions in covering-based rough sets. <i>International Journal of Approximate Reasoning</i> , 2019 , 104, 126-143	3.6	13
56	Singular neutrosophic extended triplet groups and generalized groups. <i>Cognitive Systems Research</i> , 2019 , 57, 32-40	4.8	22
55	Some intuitionistic uncertain linguistic Bonferroni mean operators and their application to group decision making. <i>Soft Computing</i> , 2019 , 23, 3869-3886	3.5	9
54	New inclusion relation of neutrosophic sets with applications and related lattice structure. <i>International Journal of Machine Learning and Cybernetics</i> , 2018 , 9, 1753-1763	3.8	61
53	A Novel Picture Fuzzy Linguistic Aggregation Operator and Its Application to Group Decision-making. <i>Cognitive Computation</i> , 2018 , 10, 242-259	4.4	51
52	Some Maclaurin Symmetric Mean Operators for Single-Valued Trapezoidal Neutrosophic Numbers and Their Applications to Group Decision Making. <i>International Journal of Fuzzy Systems</i> , 2018 , 20, 45-61	3.6	28
51	Single-Valued Neutrosophic Hesitant Fuzzy Choquet Aggregation Operators for Multi-Attribute Decision Making. <i>Symmetry</i> , 2018 , 10, 50	2.7	15
50	Generalized Interval Neutrosophic Choquet Aggregation Operators and Their Applications. <i>Symmetry</i> , 2018 , 10, 85	2.7	10
49	Neutrosophic Hesitant Fuzzy Subalgebras and Filters in Pseudo-BCI Algebras. <i>Symmetry</i> , 2018 , 10, 174	2.7	5
48	New Operations of Totally Dependent-Neutrosophic Sets and Totally Dependent-Neutrosophic Soft Sets. <i>Symmetry</i> , 2018 , 10, 187	2.7	47
47	Left (Right)-Quasi Neutrosophic Triplet Loops (Groups) and Generalized BE-Algebras. <i>Symmetry</i> , 2018 , 10, 241	2.7	12

46	NEUTROSOPHIC FILTERS IN PSEUDO-BCI ALGEBRAS 2018 , 8, 511-526		13
45	Two Types of Intuitionistic Fuzzy Covering Rough Sets and an Application to Multiple Criteria Group Decision Making. <i>Symmetry</i> , 2018 , 10, 462	2.7	12
44	Q-Filters of Quantum B-Algebras and Basic Implication Algebras. <i>Symmetry</i> , 2018 , 10, 573	2.7	26
43	Sets of solution-set-invariant coefficient matrices of fuzzy relation equations with \square -max-min composition1. <i>Journal of Intelligent and Fuzzy Systems</i> , 2018 , 34, 4067-4078	1.6	
42	New Multigranulation Neutrosophic Rough Set with Applications. <i>Symmetry</i> , 2018 , 10, 578	2.7	3
41	Approach to Multi-Attributes Decision Making With Intuitionistic Linguistic Information Based on Dempster-Shafer Evidence Theory. <i>IEEE Access</i> , 2018 , 6, 52969-52981	3.5	47
40	Two Types of Single Valued Neutrosophic Covering Rough Sets and an Application to Decision Making. <i>Symmetry</i> , 2018 , 10, 710	2.7	10
39	The lattice generated by hesitant fuzzy filters in pseudo-BCI algebras. <i>Journal of Intelligent and Fuzzy Systems</i> , 2018 , 35, 3333-3345	1.6	2
38	Four Operators of Rough Sets Generalized to Matroids and a Matroidal Method for Attribute Reduction. <i>Symmetry</i> , 2018 , 10, 418	2.7	3
37	Probabilistic Single-Valued (Interval) Neutrosophic Hesitant Fuzzy Set and Its Application in Multi-Attribute Decision Making. <i>Symmetry</i> , 2018 , 10, 419	2.7	15
36	Commutative Generalized Neutrosophic Ideals in BCK-Algebras. <i>Symmetry</i> , 2018 , 10, 350	2.7	5
35	New Similarity Measures of Single-Valued Neutrosophic Multisets Based on the Decomposition Theorem and Its Application in Medical Diagnosis. <i>Symmetry</i> , 2018 , 10, 466	2.7	5
34	On Homomorphism Theorem for Perfect Neutrosophic Extended Triplet Groups. <i>Information (Switzerland)</i> , 2018 , 9, 237	2.6	3
33	The Structure Theorems of Pseudo-BCI Algebras in Which Every Element is Quasi-Maximal. <i>Symmetry</i> , 2018 , 10, 465	2.7	2
32	Sugeno Integral of Set-Valued Functions with Respect to Multi-submeasures and Its Application in MADM. <i>International Journal of Fuzzy Systems</i> , 2018 , 20, 2534-2544	3.6	2
31	On Neutrosophic Triplet Groups: Basic Properties, NT-Subgroups, and Some Notes. <i>Symmetry</i> , 2018 , 10, 289	2.7	23
30	Multi-Granulation Neutrosophic Rough Sets on a Single Domain and Dual Domains with Applications. <i>Symmetry</i> , 2018 , 10, 296	2.7	9
29	Soft set theoretical approach to pseudo-BCI algebras. <i>Journal of Intelligent and Fuzzy Systems</i> , 2018 , 34, 559-568	1.6	45

28	Multi-granulation rough filters and rough fuzzy filters in Pseudo-BCI algebras. <i>Journal of Intelligent and Fuzzy Systems</i> , 2018 , 34, 4377-4386	1.6	7
27	Catoptrical rough set model on two universes using granule-based definition and its variable precision extensions. <i>Information Sciences</i> , 2017 , 390, 70-81	7.7	12
26	Generalized state operators on BCI-algebras. <i>Journal of Intelligent and Fuzzy Systems</i> , 2017 , 32, 2591-2602	2.6	2
25	Fuzzy anti-grouped filters and fuzzy normal filters in pseudo-BCI algebras. <i>Journal of Intelligent and Fuzzy Systems</i> , 2017 , 33, 1767-1774	1.6	52
24	New Operations of Picture Fuzzy Relations and Fuzzy Comprehensive Evaluation. <i>Symmetry</i> , 2017 , 9, 268	2.7	23
23	Uncertainty measurement for incomplete interval-valued information systems based on $\bar{\mu}$ weak similarity. <i>Knowledge-Based Systems</i> , 2017 , 136, 159-171	7.3	58
22	Neutrosophic Duplet Semi-Group and Cancellable Neutrosophic Triplet Groups. <i>Symmetry</i> , 2017 , 9, 275	2.7	45
21	Constructive methods of rough approximation operators and multigranulation rough sets. <i>Knowledge-Based Systems</i> , 2016 , 91, 114-125	7.3	93
20	Linguistic quantifiers modeled by interval-valued intuitionistic Sugeno integrals ¹ . <i>Journal of Intelligent and Fuzzy Systems</i> , 2015 , 29, 583-592	1.6	4
19	On the union and intersection operations of rough sets based on various approximation spaces. <i>Information Sciences</i> , 2015 , 292, 214-229	7.7	88
18	T-Rough Approximation Pairs and Covering Based Rough Sets. <i>Fundamenta Informaticae</i> , 2015 , 142, 195-212	1	1
17	Fuzzy 1-type and 2-type positive implicative filters of pseudo-BCK algebras ¹ . <i>Journal of Intelligent and Fuzzy Systems</i> , 2015 , 28, 2309-2317	1.6	5
16	On some fuzzy filters in pseudo-BCI algebras. <i>Scientific World Journal, The</i> , 2014 , 2014, 718972	2.2	2
15	2014 ,		2
14	Lattice-valued interval soft sets $\bar{\Delta}$ A general frame of many soft set models. <i>Journal of Intelligent and Fuzzy Systems</i> , 2014 , 26, 1311-1321	1.6	7
13	First-order logic system $\mathbf{IMTL}_{\{Q\}^{\{*\}}}$ and triple I method in fuzzy reasoning with linguistic quantifiers. <i>Journal of Intelligent and Fuzzy Systems</i> , 2014 , 26, 2359-2367	1.6	2
12	On Interval Soft Sets with Applications. <i>International Journal of Computational Intelligence Systems</i> , 2014 , 7, 186-196	3.4	11
11	BCC-algebras and residuated partially-ordered groupoid. <i>Mathematica Slovaca</i> , 2013 , 63,	0.7	9

10	Strong NMV-algebras, commutative basic algebras and naBL-algebras. <i>Mathematica Slovaca</i> , 2013 , 63,	0.7	2
9	On weak-BCC-algebras. <i>Scientific World Journal, The</i> , 2013 , 2013, 935097	2.2	3
8	A general frame for intuitionistic fuzzy rough sets. <i>Information Sciences</i> , 2012 , 216, 34-49	7.7	102
7	T-type Pseudo-BCI Algebras and T-type Pseudo-BCI Filters 2010 ,		4
6	Pseudo-BCK part and anti-grouped part of pseudo-BCI algebras 2010 ,		2
5	Rough implication operator based on strong topological rough algebras. <i>Information Sciences</i> , 2010 , 180, 3764-3780	7.7	22
4	Commutative Weak t-Norm and Non-associative Residuated Lattices 2009 ,		3
3	Ideals and atoms of BZ-algebras. <i>Mathematica Slovaca</i> , 2009 , 59,	0.7	12
2	On ideals and congruences in bcc-algebras. <i>Czechoslovak Mathematical Journal</i> , 1998 , 48, 21-29		19
1	Q-residuated lattices and lattice pseudoeffect algebras. <i>Soft Computing</i> , 1	3.5	0