Xiaohong Zhang

List of Publications by Year
in descending order

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106 papers	1,921 citations	257101 24 h-index	288905 40 g-index
106 all docs	106 docs citations	106 times ranked	746 citing authors

#	Article	IF	Citations
1	A general frame for intuitionistic fuzzy rough sets. Information Sciences, 2012, 216, 34-49.	4.0	126
2	Constructive methods of rough approximation operators and multigranulation rough sets. Knowledge-Based Systems, 2016, 91, 114-125.	4.0	104
3	On the union and intersection operations of rough sets based on various approximation spaces. Information Sciences, 2015, 292, 214-229.	4.0	99
4	New inclusion relation of neutrosophic sets with applications and related lattice structure. International Journal of Machine Learning and Cybernetics, 2018, 9, 1753-1763.	2.3	77
5	Uncertainty measurement for incomplete interval-valued information systems based on Î±-weak similarity. Knowledge-Based Systems, 2017, 136, 159-171.	4.0	69
6	A Novel Picture Fuzzy Linguistic Aggregation Operator and Its Application to Group Decision-making. Cognitive Computation, 2018, 10, 242-259.	3.6	68
7	A consensus model for hesitant fuzzy linguistic group decision-making in the framework of Dempsterâ€“Shafer evidence theory. Knowledge-Based Systems, 2021, 212, 106559.	4.0	64
8	Fuzzy anti-grouped filters and fuzzy normal filters in pseudo-BCI algebras. Journal of Intelligent and Fuzzy Systems, 2017, 33, 1767-1774.	0.8	54
9	Covering based multigranulation fuzzy rough sets and corresponding applications. Artificial Intelligence Review, 2020, 53, 1093-1126.	9.7	53
10	Approach to Multi-Attributes Decision Making With Intuitionistic Linguistic Information Based on Dempster-Shafer Evidence Theory. IEEE Access, 2018, 6, 52969-52981.	2.6	52
11	PF-TOPSIS method based on CPFRS models: An application to unconventional emergency events. Computers and Industrial Engineering, 2020, 139, 106192.	3.4	52
12	New Operations of Totally Dependent-Neutrosophic Sets and Totally Dependent-Neutrosophic Soft Sets. Symmetry, 2018, 10, 187.	1.1	49
13	Soft set theoretical approach to pseudo-BCI algebras. Journal of Intelligent and Fuzzy Systems, 2018, 34, 559-568.	0.8	48
14	A new hesitant fuzzy linguistic approach for multiple attribute decision making based on Dempsterâ€“Shafer evidence theory. Applied Soft Computing Journal, 2020, 86, 105897.	4.1	48
15	Neutrosophic Duplet Semi-Group and Cancellable Neutrosophic Triplet Groups. Symmetry, 2017, 9, 275.	1.1	46
16	On ideals and congruences in bcc-algebras. Czechoslovak Mathematical Journal, 1998, 48, 21-29.	0.3	38
17	New Operations of Picture Fuzzy Relations and Fuzzy Comprehensive Evaluation. Symmetry, 2017, 9, 268.	1.1	32
18	Some Maclaurin Symmetric Mean Operators for Single-Valued Trapezoidal Neutrosophic Numbers and Their Applications to Group Decision Making. International Journal of Fuzzy Systems, 2018, 20, 45-61.	2.3	31

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19	Fuzzy Î²-covering approximation spaces. International Journal of Approximate Reasoning, 2020, 126, 27-47.	1.9	31
20	Fuzzy Measures and Choquet Integrals Based on Fuzzy Covering Rough Sets. IEEE Transactions on Fuzzy Systems, 2022, 30, 2360-2374.	6.5	31
21	A Multicriteria Decision-Making Approach with Linguistic D Numbers Based on the Choquet Integral. Cognitive Computation, 2019, 11, 560-575.	3.6	30
22	Rough implication operator based on strong topological rough algebras. Information Sciences, 2010, 180, 3764-3780.	4.0	28
23	Q-Filters of Quantum B-Algebras and Basic Implication Algebras. Symmetry, 2018, 10, 573.	1.1	28
24	An Extended VIKOR Method for Multiple Attribute Decision Making with Linguistic D Numbers Based on Fuzzy Entropy. International Journal of Information Technology and Decision Making, 2020, 19, 143-167.	2.3	25
25	On Neutrosophic Triplet Groups: Basic Properties, NT-Subgroups, and Some Notes. Symmetry, 2018, 10, 289.	1.1	24
26	Ideals and atoms of BZ-algebras. Mathematica Slovaca, 2009, 59, 387-404.	0.3	23
27	Single-Valued Neutrosophic Hesitant Fuzzy Choquet Aggregation Operators for Multi-Attribute Decision Making. Symmetry, 2018, 10, 50.	1.1	23
28	Singular neutrosophic extended triplet groups and generalized groups. Cognitive Systems Research, 2019, 57, 32-40.	1.9	23
29	A Novel Multi-Criteria Decision-Making Method Based on Rough Sets and Fuzzy Measures. Axioms, 2022, 11, 275.	0.9	23
30	Probabilistic Single-Valued (Interval) Neutrosophic Hesitant Fuzzy Set and Its Application in Multi-Attribute Decision Making. Symmetry, 2018, 10, 419.	1.1	22
31	Generalized Neutrosophic Extended Triplet Group. Symmetry, 2019, 11, 327.	1.1	22
32	The Decomposition Theorems of AG-Neutrosophic Extended Triplet Loops and Strong AG-(l, l)-Loops. Mathematics, 2019, 7, 268.	1.1	19
33	Multi-Attribute Decision Making Based on Probabilistic Neutrosophic Hesitant Fuzzy Choquet Aggregation Operators. Symmetry, 2019, 11, 623.	1.1	18
34	Catoptrical rough set model on two universes using granule-based definition and its variable precision extensions. Information Sciences, 2017, 390, 70-81.	4.0	17
35	Some intuitionistic uncertain linguistic Bonferroni mean operators and their application to group decision making. Soft Computing, 2019, 23, 3869-3886.	2.1	17
36	Matrix approaches for some issues about minimal and maximal descriptions in covering-based rough sets. International Journal of Approximate Reasoning, 2019, 104, 126-143.	1.9	16

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37	Two Types of Intuitionistic Fuzzy Covering Rough Sets and an Application to Multiple Criteria Group Decision Making. Symmetry, 2018, 10, 462.	1.1	15
38	Interval-Valued Pseudo Overlap Functions and Application. Axioms, 2022, 11, 216.	0.9	15
39	Two Types of Single Valued Neutrosophic Covering Rough Sets and an Application to Decision Making. Symmetry, 2018, 10, 710.	1.1	14
40	Additive s-functional inequality and hom-derivations in Banach algebras. Journal of Fixed Point Theory and Applications, 2019, 21, 1.	0.6	14
41	A novel approach to multi-criteria group decision-making problems based on linguistic D numbers. Computational and Applied Mathematics, 2020, 39, 1.	1.0	14
42	BCC-algebras and residuated partially-ordered groupoid. Mathematica Slovaca, 2013, 63, .	0.3	13
43	On Interval Soft Sets with Applications. International Journal of Computational Intelligence Systems, 2014, 7, 186.	1.6	13
44	Left (Right)-Quasi Neutrosophic Triplet Loops (Groups) and Generalized BE-Algebras. Symmetry, 2018, 10, 241.	1.1	13
45	On neutrosophic extended triplet groups (loops) and Abel-Grassmannâ€™s groupoids (AG-groupoids). Journal of Intelligent and Fuzzy Systems, 2019, 37, 5743-5753.	0.8	13
46	NEUTROSOPHIC FILTERS IN PSEUDO-BCI ALGEBRAS. , 2018, 8, 511-526.		13
47	Multi-Granulation Neutrosophic Rough Sets on a Single Domain and Dual Domains with Applications. Symmetry, 2018, 10, 296.	1.1	12
48	Generalized Interval Neutrosophic Choquet Aggregation Operators and Their Applications. Symmetry, 2018, 10, 85.	1.1	12
49	Matrix approach for fuzzy description reduction and group decision-making with fuzzy <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si476.svg"><mml:mrow><mml:mi>î²</mml:mi></mml:mrow></mml:math>-covering. Information Sciences, 2022, 597, 53-85.	4.0	12
50	Regular Partial Residuated Lattices and Their Filters. Mathematics, 2022, 10, 2429.	1.1	10
51	Measures of Probabilistic Neutrosophic Hesitant Fuzzy Sets and the Application in Reducing Unnecessary Evaluation Processes. Mathematics, 2019, 7, 649.	1.1	9
52	Lattice-valued interval soft sets â€“ A general frame of many soft set models. Journal of Intelligent and Fuzzy Systems, 2014, 26, 1311-1321.	0.8	8
53	Overlap Functions Based (Multi-Granulation) Fuzzy Rough Sets and Their Applications in MCDM. Symmetry, 2021, 13, 1779.	1.1	8
54	On Cyclic Associative Semihypergroups and Neutrosophic Extended Triplet Cyclic Associative Semihypergroups. Mathematics, 2022, 10, 535.	1.1	8

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55	Left (Right) Regular and Transposition Regular Semigroups and Their Structures. Mathematics, 2022, 10, 1021.	1.1	8
56	New Multigranulation Neutrosophic Rough Set with Applications. Symmetry, 2018, 10, 578.	1.1	7
57	New Similarity Measures of Single-Valued Neutrosophic Multisets Based on the Decomposition Theorem and Its Application in Medical Diagnosis. Symmetry, 2018, 10, 466.	1.1	7
58	Multi-granulation rough filters and rough fuzzy filters in Pseudo-BCI algebras. Journal of Intelligent and Fuzzy Systems, 2018, 34, 4377-4386.	0.8	7
59	Grained matrix and complementary matrix: Novel methods for computing information descriptions in covering approximation spaces. Information Sciences, 2022, 591, 68-87.	4.0	7
60	A Class of BCI-Algebra and Quasi-Hyper BCI-Algebra. Axioms, 2022, 11, 72.	0.9	7
61	QM-BZ-Algebras and Quasi-Hyper BZ-Algebras. Axioms, 2022, 11, 93.	0.9	7
62	Fuzzy 1-type and 2-type positive implicative filters of pseudo-BCK algebras1. Journal of Intelligent and Fuzzy Systems, 2015, 28, 2309-2317.	0.8	6
63	Commutative Generalized Neutrosophic Ideals in BCK-Algebras. Symmetry, 2018, 10, 350.	1.1	6
64	Neutrosophic Hesitant Fuzzy Subalgebras and Filters in Pseudo-BCI Algebras. Symmetry, 2018, 10, 174.	1.1	6
65	Commutative Weak t-Norm and Non-associative Residuated Lattices. , 2009, , .		5
66	T-type Pseudo-BCI Algebras and T-type Pseudo-BCI Filters. , 2010, , .		5
67	Four Operators of Rough Sets Generalized to Matroids and a Matroidal Method for Attribute Reduction. Symmetry, 2018, 10, 418.	1.1	5
68	Sugeno Integral of Set-Valued Functions with Respect to Multi-submeasures and Its Application in MADM. International Journal of Fuzzy Systems, 2018, 20, 2534-2544.	2.3	5
69	Neutrosophic Triangular Norms and Their Derived Residuated Lattices. Symmetry, 2019, 11, 817.	1.1	5
70	Neutrosophic Extended Triplet Group Based on Neutrosophic Quadruple Numbers. Symmetry, 2019, 11, 696.	1.1	5
71	Intuitionistic Fuzzy (IF) Overlap Functions and IF-Rough Sets with Applications. Symmetry, 2021, 13, 1494.	1.1	5
72	Pseudo-BCK part and anti-grouped part of pseudo-BCI algebras. , 2010, , .		4

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73	On Weak-BCC-Algebras. Scientific World Journal, The, 2013, 2013, 1-10.	0.8	4
74	Linguistic quantifiers modeled by interval-valued intuitionistic Sugeno integrals1. Journal of Intelligent and Fuzzy Systems, 2015, 29, 583-592.	0.8	4
75	On Neutrosophic Extended Triplet LA-hypergroups and Strong Pure LA-semihypergroups. Symmetry, 2020, 12, 163.	1.1	4
76	Regular CA-Groupoids and Cyclic Associative Neutrosophic Extended Triplet Groupoids (CA-NET-Groupoids) with Green Relations. Mathematics, 2020, 8, 204.	1.1	4
77	Strong NMV-algebras, commutative basic algebras and naBL-algebras. Mathematica Slovaca, 2013, 63, .	0.3	3
78	On Homomorphism Theorem for Perfect Neutrosophic Extended Triplet Groups. Information (Switzerland), 2018, 9, 237.	1.7	3
79	A New Type of Single Valued Neutrosophic Covering Rough Set Model. Symmetry, 2019, 11, 1074.	1.1	3
80	Generalized Abel-Grassmannâ€™s Neutrosophic Extended Triplet Loop. Mathematics, 2019, 7, 1206.	1.1	3
81	Symmetry in Hyperstructure: Neutrosophic Extended Triplet Semihypergroups and Regular Hypergroups. Symmetry, 2019, 11, 1217.	1.1	3
82	Filters in Strong BI-Algebras and Residuated Pseudo-SBI-Algebras. Mathematics, 2020, 8, 1513.	1.1	3
83	Two Open Problems on CA-Groupoids and Cancellativities of T2CA-Groupoids. Axioms, 2022, 11, 169.	0.9	3
84	On Some Fuzzy Filters in Pseudo-BCIAlgebras. Scientific World Journal, The, 2014, 2014, 1-8.	0.8	2
85	Fuzzy T-type filters in pseudo-BCI algebras. , 2014, , .		2
86	First-order logic system $mathbf{IMTL_{Q}^{*}}$ and triple I method in fuzzy reasoning with linguistic quantifiers. Journal of Intelligent and Fuzzy Systems, 2014, 26, 2359-2367.	0.8	2
87	T-Rough Approximation Pairs and Covering Based Rough Sets. Fundamenta Informaticae, 2015, 142, 195-212.	0.3	2
88	Generalized state operators on BCI-algebras. Journal of Intelligent and Fuzzy Systems, 2017, 32, 2591-2602.	0.8	2
89	The lattice generated by hesitant fuzzy filters in pseudo-BCI algebras. Journal of Intelligent and Fuzzy Systems, 2018, 35, 3333-3345.	0.8	2
90	The Structure Theorems of Pseudo-BCI Algebras in Which Every Element is Quasi-Maximal. Symmetry, 2018, 10, 465.	1.1	2

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91	Non-Dual Multi-Granulation Neutrosophic Rough Set with Applications. Symmetry, 2019, 11, 910.	1.1	2
92	On Two Conjectures of Abel Grassmannâ€™s Groupoids. Symmetry, 2019, 11, 816.	1.1	2
93	Involution Abelâ€“Grassmannâ€™s Groups and Filter Theory of Abelâ€“Grassmannâ€™s Groups. Symmetry, 2019, 11, 553.	1.1	2
94	Algebraic Structures of Neutrosophic Triplets, Neutrosophic Duplets, or Neutrosophic Multisets. Symmetry, 2019, 11, 171.	1.1	2
95	Some Results on Various Cancellative CA-Groupoids and Variant CA-Groupoids. Symmetry, 2020, 12, 315.	1.1	2
96	Q-residuated lattices and lattice pseudoeffect algebras. Soft Computing, 0, , 1.	2.1	2
97	Transposition Regular AG-Groupoids and Their Decomposition Theorems. Mathematics, 2022, 10, 1396.	1.1	2
98	On 1-type positive implicative pseudo-BCK/BCI algebras. , 2010, , .		1
99	Commutative pseudo-BCI algebras and commutative pseudo-BCI filters. , 2010, , .		1
100	A Kind of Variation Symmetry: Tarski Associative Groupoids (TA-Groupoids) and Tarski Associative Neutrosophic Extended Triplet Groupoids (TA-NET-Groupoids). Symmetry, 2020, 12, 714.	1.1	1
101	Pseudo-BCI filters and subalgebras in pseudo-BCI algebras. , 2010, , .		0
102	Smart semihypergroups and rough sets based on general binary relations. , 2016, , .		0
103	Sets of solution-set-invariant coefficient matrices of fuzzy relation equations withÂmax-min composition1. Journal of Intelligent and Fuzzy Systems, 2018, 34, 4067-4078.	0.8	0
104	Study on the Algebraic Structure of Refined Neutrosophic Numbers. Symmetry, 2019, 11, 954.	1.1	0
105	The Structure of Idempotents in Neutrosophic Rings and Neutrosophic Quadruple Rings. Symmetry, 2019, 11, 1254.	1.1	0
106	Generalized Shapley probability neutrosophic hesitant fuzzy Choquet aggregation operators and their applications. Journal of Intelligent and Fuzzy Systems, 2020, 38, 3343-3357.	0.8	0