

Sankar Prasad Mondal

List of Publications by Year in descending order

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97
papers

1,717
citations

304701

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h-index

361001

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97
docs citations

97
times ranked

956
citing authors

#	ARTICLE	IF	CITATIONS
1	Eco-Friendly Cutting Fluids in Minimum Quantity Lubrication Assisted Machining: A Review on the Perception of Sustainable Manufacturing. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 249-280.	4.9	165
2	Identification of dominant risk factor involved in spread of COVID-19 using hesitant fuzzy MCDM methodology. Results in Physics, 2021, 21, 103811.	4.1	60
3	Synergistic effect of silica and pure palm oil on the machining performances of Inconel 690: A study for promoting minimum quantity nano doped-green lubricants. Journal of Cleaner Production, 2020, 258, 120755.	9.3	58
4	Influence of Al ₂ O ₃ and palm oil mixed nano-fluid on machining performances of Inconel-690: IF-THEN rules based FIS model in eco-benign milling. International Journal of Advanced Manufacturing Technology, 2019, 103, 3389-3403.	3.0	57
5	The Pentagonal Fuzzy Number: Its Different Representations, Properties, Ranking, Defuzzification and Application in Game Problems. Symmetry, 2019, 11, 248.	2.2	57
6	Different Forms of Triangular Neutrosophic Numbers, De-Neutrosophication Techniques, and their Applications. Symmetry, 2018, 10, 327.	2.2	49
7	Approach to solve multi-criteria group decision-making problems by exponential operational law in generalised spherical fuzzy environment. CAAI Transactions on Intelligence Technology, 2020, 5, 106-114.	8.1	46
8	Hexagonal fuzzy number and its distinctive representation, ranking, defuzzification technique and application in production inventory management problem. Granular Computing, 2021, 6, 507-521.	8.0	42
9	Impact of predator incited fear and prey refuge in a fractional order prey predator model. Chaos, Solitons and Fractals, 2021, 142, 110420.	5.1	39
10	Numerical solution of Lotka Volterra prey predator model by using Runge-Kutta-Fehlberg method and Laplace Adomian decomposition method. AEJ - Alexandria Engineering Journal, 2016, 55, 613-617.	6.4	38
11	QCA Based Error Detection Circuit for Nano Communication Network. IEEE Access, 2019, 7, 67355-67366.	4.2	36
12	Wear behaviour of TiAlN coated solid carbide end-mill under alumina enriched minimum quantity palm oil-based lubricating condition. Tribology International, 2020, 148, 106310.	5.9	36
13	Selection of an ideal MQL-assisted milling condition: an NSGA-II-coupled TOPSIS approach for improving machinability of Inconel 690. International Journal of Advanced Manufacturing Technology, 2019, 103, 1811-1829.	3.0	35
14	AHP-TOPSIS Inspired Shopping Mall Site Selection Problem with Fuzzy Data. Mathematics, 2020, 8, 1380.	2.2	34
15	A comprehensive study of a backloging EOQ model with nonlinear heptagonal dense fuzzy environment. RAIRO - Operations Research, 2020, 54, 267-286.	1.8	34
16	Advancement of an intelligent system based on ANFIS for predicting machining performance parameters of Inconel 690 – A perspective of metaheuristic approach. Measurement: Journal of the International Measurement Confederation, 2017, 109, 9-17.	5.0	33
17	Application of Hexagonal Fuzzy MCDM Methodology for Site Selection of Electric Vehicle Charging Station. Mathematics, 2021, 9, 393.	2.2	33
18	Pentagonal fuzzy number, its properties and application in fuzzy equation. Future Computing and Informatics Journal, 2017, 2, 110-117.	0.6	32

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19	Disjunctive Representation of Triangular Bipolar Neutrosophic Numbers, De-Bipolarization Technique and Application in Multi-Criteria Decision-Making Problems. <i>Symmetry</i> , 2019, 11, 932.	2.2	31
20	Cylindrical neutrosophic single-valued number and its application in networking problem, multi-criterion group decision-making problem and graph theory. <i>CAAI Transactions on Intelligence Technology</i> , 2020, 5, 68-77.	8.1	31
21	System of Differential Equation with Initial Value as Triangular Intuitionistic Fuzzy Number and its Application. <i>International Journal of Applied and Computational Mathematics</i> , 2015, 1, 449-474.	1.6	28
22	A Study of a Backorder EOQ Model for Cloud-Type Intuitionistic Dense Fuzzy Demand Rate. <i>International Journal of Fuzzy Systems</i> , 2020, 22, 201-211.	4.0	28
23	Artificial bee colony optimization-inspired synergetic study of fractional-order economic production quantity model. <i>Soft Computing</i> , 2020, 24, 15341-15359.	3.6	25
24	Decision Maker Priority Index and Degree of Vagueness Coupled Decision Making Method: A Synergistic Approach. <i>International Journal of Fuzzy Systems</i> , 2018, 20, 1551-1566.	4.0	21
25	Multi-objective optimization for MQL-assisted end milling operation: an intelligent hybrid strategy combining GEP and NTOPSIS. <i>Neural Computing and Applications</i> , 2019, 31, 8693-8717.	5.6	21
26	Differential equation with interval valued fuzzy number and its applications. <i>International Journal of Systems Assurance Engineering and Management</i> , 2016, 7, 370-386.	2.4	20
27	The Behavior of Logistic Equation with Alley Effect in Fuzzy Environment: Fuzzy Differential Equation Approach. <i>International Journal of Applied and Computational Mathematics</i> , 2018, 4, 1.	1.6	20
28	Classification of trapezoidal bipolar neutrosophic number, de-bipolarization technique and its execution in cloud service-based MCGDM problem. <i>Complex & Intelligent Systems</i> , 2021, 7, 145-162.	6.5	20
29	Application of Generalized Hukuhara derivative approach in an economic production quantity model with partial trade credit policy under fuzzy environment. <i>Operations Research Perspectives</i> , 2016, 3, 77-91.	2.1	19
30	Arbitrary-order economic production quantity model with and without deterioration: generalized point of view. <i>Advances in Difference Equations</i> , 2020, 2020, .	3.5	19
31	Two-plant production model with customers' demand dependent on warranty period of the product and carbon emission level of the manufacturer via different meta-heuristic algorithms. <i>Neural Computing and Applications</i> , 2021, 33, 14263-14281.	5.6	19
32	Interval valued intuitionistic fuzzy number and its application in differential equation. <i>Journal of Intelligent and Fuzzy Systems</i> , 2018, 34, 677-687.	1.4	18
33	GEP- and ANN-based tool wear monitoring: a virtually sensing predictive platform for MQL-assisted milling of Inconel 690. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 395-410.	3.0	18
34	A Study of an EOQ Model under Lock Fuzzy Environment. <i>Mathematics</i> , 2019, 7, 75.	2.2	18
35	Different linear and non-linear form of trapezoidal neutrosophic numbers, de-neutrosophication techniques and its application in time-cost optimization technique, sequencing problem. <i>RAIRO - Operations Research</i> , 2021, 55, S97-S118.	1.8	18
36	Interpretation of exact solution for fuzzy fractional non-homogeneous differential equation under the Riemann-Liouville sense and its application on the inventory management control problem. <i>Granular Computing</i> , 2021, 6, 953-976.	8.0	17

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37	Non-linear interval-valued fuzzy numbers and their application in difference equations. Granular Computing, 2018, 3, 177-189.	8.0	16
38	A study of a lock fuzzy EPQ model with deterioration and stock and unit selling price-dependent demand using preservation technology. Soft Computing, 2022, 26, 2721-2740.	3.6	16
39	Discussion on fuzzy quota harvesting model in fuzzy environment: fuzzy differential equation approach. Modeling Earth Systems and Environment, 2016, 2, 1.	3.4	15
40	Mathematical model of glucose-insulin regulatory system on diabetes mellitus in fuzzy and crisp environment. Ecological Genetics and Genomics, 2017, 2, 25-34.	0.5	15
41	Synergetic study of inventory management problem in uncertain environment based on memory and learning effects. Sadhana - Academy Proceedings in Engineering Sciences, 2021, 46, 1.	1.3	15
42	First Order Linear Homogeneous Ordinary Differential Equation in Fuzzy Environment Based On Laplace Transform. Journal of Fuzzy Set Valued Analysis, 0, 2013, 1-18.	0.2	15
43	First order homogeneous ordinary differential equation with initial value as triangular intuitionistic fuzzy number. Journal of Uncertainty in Mathematics Science, 0, 2014, 1-17.	0.0	15
44	Mathematical model for diabetes in fuzzy environment with stability analysis. Journal of Intelligent and Fuzzy Systems, 2019, 36, 2923-2932.	1.4	14
45	Solution and stability analysis of non-homogeneous difference equation followed by real life application in fuzzy environment. Sadhana - Academy Proceedings in Engineering Sciences, 2020, 45, 1.	1.3	14
46	Security Analysis With Novel Image Masking Based Quantum-Dot Cellular Automata Information Security Model. IEEE Access, 2020, 8, 117159-117172.	4.2	14
47	A method for solving linear difference equation in Gaussian fuzzy environments. Granular Computing, 2022, 7, 63-76.	8.0	14
48	Study of two species prey-predator model in imprecise environment with MSY policy under different harvesting scenario. Environment, Development and Sustainability, 2021, 23, 14908-14932.	5.0	14
49	Study of a Fuzzy Production Inventory Model with Deterioration Under Marxian Principle. International Journal of Fuzzy Systems, 2022, 24, 2092-2106.	4.0	14
50	Different Solution Strategies for Solving Epidemic Model in Imprecise Environment. Complexity, 2018, 2018, 1-18.	1.6	13
51	Nonlinear Triangular Intuitionistic Fuzzy Number and Its Application in Linear Integral Equation. Advances in Fuzzy Systems, 2019, 2019, 1-14.	0.9	13
52	An estimation of effects of memory and learning experience on the eqq model with price dependent demand. RAIRO - Operations Research, 2021, 55, 2991-3020.	1.8	12
53	Application of ordinary differential equation in glucose-insulin regulatory system modeling in fuzzy environment. Ecological Genetics and Genomics, 2017, 3-5, 60-66.	0.5	11
54	An optimization technique for national income determination model with stability analysis of differential equation in discrete and continuous process under the uncertain environment. RAIRO - Operations Research, 2019, 53, 1649-1674.	1.8	11

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55	Solution and Interpretation of Neutrosophic Homogeneous Difference Equation. <i>Symmetry</i> , 2020, 12, 1091.	2.2	11
56	Optimal harvesting of two species mutualism model with interval parameters. <i>Journal of Intelligent and Fuzzy Systems</i> , 2017, 33, 1991-2005.	1.4	10
57	Evaluating the impact of service quality on the dynamics of customer satisfaction in the telecommunication industry of Jorhat, Assam. <i>Telecommunication Systems</i> , 2019, 71, 31-53.	2.5	10
58	Fractional order ecological system for complexities of interacting species with harvesting threshold in imprecise environment. <i>Advances in Difference Equations</i> , 2019, 2019, .	3.5	10
59	A novel logarithmic operational law and aggregation operators for trapezoidal neutrosophic number with MCGDM skill to determine most harmful virus. <i>Applied Intelligence</i> , 2022, 52, 4398-4417.	5.3	9
60	A Study of an EOQ Model of Growing Items with Parabolic Dense Fuzzy Lock Demand Rate. <i>Applied System Innovation</i> , 2021, 4, 81.	4.6	9
61	New exponential operational law for measuring pollution attributes in mega-cities based on MCGDM problem with trapezoidal neutrosophic data. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 0, , 1.	4.9	8
62	Numerical Solution of First-Order Linear Differential Equations in Fuzzy Environment by Runge-Kutta-Fehlberg Method and Its Application. <i>International Journal of Differential Equations</i> , 2016, 2016, 1-14.	0.8	7
63	DNA Sequences Compression by GP ² R and Selective Encryption Using Modified RSA Technique. <i>IEEE Access</i> , 2020, 8, 76880-76895.	4.2	7
64	Selection of Best E-Rickshaw-A Green Energy Game Changer: An Application of AHP and TOPSIS Method. <i>Journal of Intelligent and Fuzzy Systems</i> , 2021, 40, 11217-11230.	1.4	7
65	First Order Linear Homogeneous Fuzzy Ordinary Differential Equation Based on Lagrange Multiplier Method. <i>Journal of Soft Computing and Applications</i> , 0, 2013, 1-17.	0.0	7
66	Influence of impreciseness in designing tritrophic level complex food chain modeling in interval environment. <i>Advances in Difference Equations</i> , 2020, 2020, .	3.5	7
67	Nonlinear pentagonal intuitionistic fuzzy number and its application in EPQ model under learning and forgetting. <i>Complex & Intelligent Systems</i> , 2022, 8, 1307-1322.	6.5	7
68	Discussion on Proportional Harvesting Model in Fuzzy Environment: Fuzzy Differential Equation Approach. <i>International Journal of Applied and Computational Mathematics</i> , 2017, 3, 3067-3090.	1.6	6
69	Existence and Stability of Difference Equation in Imprecise Environment. <i>Nonlinear Engineering</i> , 2018, 7, 263-271.	2.7	6
70	Some operations on Dombi neutrosophic graph. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 0, , 1.	4.9	6
71	The solution techniques for linear and quadratic equations with coefficients as Cauchy neutrosophic numbers. <i>Granular Computing</i> , 2022, 7, 421-439.	8.0	5
72	Adaptive strategies for system of fuzzy differential equation: application of arms race model. <i>Journal of Mathematics and Computer Science</i> , 2018, 18, 192-205.	1.0	5

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73	Solution of second order linear fuzzy difference equation by Lagrange's multiplier method. Journal of Soft Computing and Applications, 2016, 2016, 11-27.	0.0	5
74	A study of an EOQ model with public-screened discounted items under cloudy fuzzy demand rate. Journal of Intelligent and Fuzzy Systems, 2021, 41, 6923-6934.	1.4	5
75	Application of Fuzzy TOPSIS Algorithm for Selecting Best Family Car. , 2020, , .		5
76	Discrete System Insights of Logistic Quota Harvesting Model: A Fuzzy Difference Equation Approach. Journal of Uncertain Systems, 2022, 15, .	0.7	5
77	Solution of second order linear fuzzy ordinary differential equation by Lagrange multiplier method with application in mechanics. Opsearch, 2017, 54, 766-798.	1.8	4
78	Generalization of Classical Fuzzy Economic Order Quantity Model Based on Memory Dependency via Fuzzy Fractional Differential Equation Approach. Journal of Uncertain Systems, 2022, 15, .	0.7	4
79	Some Comparison of Solutions by Different Numerical Techniques on Mathematical Biology Problem. International Journal of Differential Equations, 2016, 2016, 1-14.	0.8	3
80	AHP coupled multi-criteria decision making approach for selection of carbon nanotube applied in mechanical engineering under grey-environment. International Journal of Materials and Structural Integrity, 2018, 12, 224.	0.1	3
81	VIKOR Method for Decision Making Problems in Interval Valued Neutrosophic Environment. Studies in Fuzziness and Soft Computing, 2019, , 587-602.	0.8	3
82	Solution Strategy for Fuzzy Fractional Order Linear Homogeneous Differential Equation by Caputo-H Differentiability and Its Application in Fuzzy EOQ Model. Studies in Fuzziness and Soft Computing, 2022, , 143-157.	0.8	3
83	Different Solution Strategy for Solving Type-2 Fuzzy System of Differential Equations with Application in Arms Race Model. International Journal of Applied and Computational Mathematics, 2021, 7, 1.	1.6	3
84	A Holistic-Based Multi-Criterion Decision-Making Approach for Solving Engineering Sciences Problem Under Imprecise Environment. Advances in Computational Intelligence and Robotics Book Series, 2018, , 298-330.	0.4	2
85	A New Idea to Evaluate Networking Problem and MCGDM Problem in Parametric Interval Valued Pythagorean Arena. Discrete Dynamics in Nature and Society, 2022, 2022, 1-20.	0.9	2
86	Linear and Non-linear Neutrosophic Numbers. Studies in Fuzziness and Soft Computing, 2019, , 63-78.	0.8	1
87	Linear Fuzzy Delay Differential Equation and Its Application in Biological Model with Fuzzy Stability Analysis. Advances in Intelligent Systems and Computing, 2020, , 231-240.	0.6	1
88	Artificial Neural Network for Solving the Inventory Control Problem in Fuzzy Environments. Advances in Computational Intelligence and Robotics Book Series, 2021, , 126-143.	0.4	1
89	Non-Linear Intuitionistic Fuzzy Number and Its Application in Partial Differential Equation. Advances in Computational Intelligence and Robotics Book Series, 2017, , 215-234.	0.4	1
90	Intuitionistic Fuzzy Difference Equation. Advances in Computational Intelligence and Robotics Book Series, 2017, , 112-131.	0.4	1

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91	Solution of Basic Inventory Model in Fuzzy and Interval Environments. Advances in Business Strategy and Competitive Advantage Book Series, 2017, , 65-95.	0.3	1
92	Application of Fractional Calculus on the Crisp and Uncertain Inventory Control Problem. Advances in Computer and Electrical Engineering Book Series, 2022, , 120-148.	0.3	1
93	Developing a Decision-Making Model Using Interval-Valued Intuitionistic Fuzzy Number. Advances in Intelligent Systems and Computing, 2019, , 269-278.	0.6	0
94	Solution of Some Differential Equation in Fuzzy Environment by Extension Principle Method and Its Application in Biomathematics. Advances in Bioinformatics and Biomedical Engineering Book Series, 2016, , 413-440.	0.4	0
95	A Statistical Scrutiny of Three Prominent Machine-Learning Techniques to Forecast Machining Performance Parameters of Inconel 690. Advances in Computational Intelligence and Robotics Book Series, 2018, , 104-120.	0.4	0
96	AHP coupled multi-criteria decision making approach for selection of carbon nanotube applied in mechanical engineering under grey-environment. International Journal of Materials and Structural Integrity, 2018, 12, 224.	0.1	0
97	Analysis of Discrete System Modelling Followed by Spread of Infectious Diseases Problem in Fuzzy Environments. Advances in Medical Technologies and Clinical Practice Book Series, 2020, , 120-137.	0.3	0