

Raghavendra V Kulkarni

List of Publications by Year in descending order

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67
papers

3,480
citations

201674

27
h-index

182427

51
g-index

67
all docs

67
docs citations

67
times ranked

3423
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational Intelligence in Wireless Sensor Networks: A Survey. IEEE Communications Surveys and Tutorials, 2011, 13, 68-96.	39.4	559
2	Particle Swarm Optimization in Wireless-Sensor Networks: A Brief Survey. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2011, 41, 262-267.	2.9	558
3	Convolutional neural networks in medical image understanding: a survey. Evolutionary Intelligence, 2022, 15, 1-22.	3.6	257
4	Bio-inspired Algorithms for Autonomous Deployment and Localization of Sensor Nodes. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2010, 40, 663-675.	2.9	169
5	pH-responsive interpenetrating network hydrogel beads of poly(acrylamide)-g-carrageenan and sodium alginate for intestinal targeted drug delivery: Synthesis, in vitro and in vivo evaluation. Journal of Colloid and Interface Science, 2012, 367, 509-517.	9.4	144
6	Interpenetrating network hydrogel membranes of sodium alginate and poly(vinyl alcohol) for controlled release of prazosin hydrochloride through skin. International Journal of Biological Macromolecules, 2010, 47, 520-527.	7.5	139
7	Interpenetrating polymer network microcapsules of gellan gum and egg albumin entrapped with diltiazem-resin complex for controlled release application. Carbohydrate Polymers, 2011, 83, 1001-1007.	10.2	99
8	Membranes for dehydration of alcohols via pervaporation. Journal of Environmental Management, 2019, 242, 415-429.	7.8	91
9	Bio-inspired node localization in wireless sensor networks. , 2009, , .		90
10	Evaluation of pH-Sensitivity and Drug Release Characteristics of (Polyacrylamide-g-Xanthan)-Carboxymethyl Cellulose-Based pH-Sensitive Interpenetrating Network Hydrogel Beads. Drug Development and Industrial Pharmacy, 2008, 34, 1406-1414.	2.0	73
11	Electroresponsive Polyacrylamide-grafted-xanthan Hydrogels for Drug Delivery. Journal of Bioactive and Compatible Polymers, 2009, 24, 368-384.	2.1	70
12	Reactive mechanism and the applications of bioactive prebiotics for human health: Review. Journal of Microbiological Methods, 2019, 159, 128-137.	1.6	66
13	Novel pH-Sensitive Interpenetrating Network Hydrogel Beads of Carboxymethylcellulose () Tj ETQq1 1 0.784314 rgBT /Overlock 1 Characterization. Current Drug Delivery, 2008, 5, 256-264.	1.6	65
14	Novel biocompatible poly(acrylamide)-grafted-dextran hydrogels: Synthesis, characterization and biomedical applications. Journal of Microbiological Methods, 2019, 159, 200-210.	1.6	60
15	Enteric delivery of ketoprofen through functionally modified poly(acrylamide-grafted-xanthan)-based pH-sensitive hydrogel beads: Preparation, in vitro and in vivo evaluation. Journal of Drug Targeting, 2008, 16, 167-177.	4.4	56
16	Tailor-made electrically-responsive poly(acrylamide)-graft-pullulan copolymer based transdermal drug delivery systems: Synthesis, characterization, in-vitro and ex-vivo evaluation. Journal of Drug Delivery Science and Technology, 2020, 56, 101525.	3.0	55
17	Polyacrylamide-Grafted-Alginate-Based pH-Sensitive Hydrogel Beads for Delivery of Ketoprofen to the Intestine: in Vitro and in Vivo Evaluation. Journal of Biomaterials Science, Polymer Edition, 2009, 20, 235-251.	3.5	53
18	Neural network based secure media access control protocol for wireless sensor networks. , 2009, , .		53

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19	Development and performance evaluation of novel nanoparticles of a grafted copolymer loaded with curcumin. <i>International Journal of Biological Macromolecules</i> , 2016, 86, 709-720.	7.5	51
20	Polyacrylamide-g-alginate based electrically responsive hydrogel for drug delivery application: Synthesis, characterization, and formulation development. <i>Journal of Applied Polymer Science</i> , 2010, 115, 1180-1188.	2.6	50
21	Novel interpenetrated polymer network microbeads of natural polysaccharides for modified release of water soluble drug: in-vitro and in-vivo evaluation. <i>Journal of Pharmacy and Pharmacology</i> , 2012, 64, 530-540.	2.4	48
22	Functionally modified polyacrylamide-graft-gum karaya pH-sensitive spray dried microspheres for colon targeting of an anti-cancer drug. <i>International Journal of Biological Macromolecules</i> , 2017, 102, 829-839.	7.5	43
23	Novel pH-sensitive IPNs of polyacrylamide-g-gum ghatti and sodium alginate for gastro-protective drug delivery. <i>International Journal of Biological Macromolecules</i> , 2015, 75, 133-143.	7.5	39
24	In vitro and in vivo evaluation of novel interpenetrated polymer network microparticles containing repaglinide. <i>International Journal of Biological Macromolecules</i> , 2014, 69, 514-522.	7.5	36
25	Simvastatin loaded composite polyspheres of gellan gum and carrageenan: In vitro and in vivo evaluation. <i>International Journal of Biological Macromolecules</i> , 2013, 57, 238-244.	7.5	31
26	Interpenetrating polymer network matrices of sodium alginate and carrageenan for controlled drug delivery application. <i>Fibers and Polymers</i> , 2011, 12, 352-358.	2.1	30
27	Integration of biological pre-treatment methods for increased energy recovery from paper and pulp biosludge. <i>Journal of Microbiological Methods</i> , 2019, 160, 93-100.	1.6	30
28	Sonophoresis-mediated permeation and retention of peptide dendrimers across human epidermis. <i>Skin Research and Technology</i> , 2012, 18, 101-107.	1.6	28
29	Functionally Tailored Electro-Sensitive Poly(Acrylamide)-g-Pectin Copolymer Hydrogel for Transdermal Drug Delivery Application: Synthesis, Characterization, In-vitro and Ex-vivo Evaluation. <i>Drug Delivery Letters</i> , 2020, 10, 185-196.	0.5	28
30	A comparative investigation of deterministic and metaheuristic algorithms for node localization in wireless sensor networks. <i>Wireless Networks</i> , 2019, 25, 2789-2803.	3.0	27
31	Controlled Release of an Antihypertensive Drug through Interpenetrating Polymer Network Hydrogel Tablets of Tamarind Seed Polysaccharide and Sodium Alginate. <i>Journal of Macromolecular Science - Physics</i> , 2013, 52, 1636-1650.	1.0	26
32	Interpenetrating network hydrogel beads of carboxymethylcellulose and egg albumin for controlled release of lipid lowering drug. <i>Journal of Microencapsulation</i> , 2010, 27, 337-344.	2.8	25
33	Novel pH-sensitive interpenetrated network polyspheres of polyacrylamide-g-locust bean gum and sodium alginate for intestinal targeting of ketoprofen: In vitro and in vivo evaluation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 180, 362-370.	5.0	25
34	Security Enhancement in Wireless Sensor Networks Using Machine Learning. , 2012, , .		23
35	Electrically modulated transport of diclofenac salts through hydrogels of sodium alginate, carboxypol, and their blend polymers. <i>Journal of Applied Polymer Science</i> , 2005, 96, 301-311.	2.6	22
36	Multistage localization in wireless sensor networks using artificial bee colony algorithm. , 2016, , .		19

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37	In vitro and in vivo assessment of novel pH-sensitive interpenetrating polymer networks of a graft copolymer for gastro-protective delivery of ketoprofen. RSC Advances, 2016, 6, 64344-64356.	3.6	19
38	Generalized neuron: Feedforward and recurrent architectures. Neural Networks, 2009, 22, 1011-1017.	5.9	17
39	Novel spray dried pH-sensitive polyacrylamide- <i>grafted</i> -carboxymethylcellulose sodium copolymer microspheres for colon targeted delivery of an anti-cancer drug. Journal of Biomaterials Science, Polymer Edition, 2017, 28, 139-161.	3.5	17
40	Electro-responsive polyacrylamide-grafted-gum ghatti copolymer for transdermal drug delivery application. Journal of Macromolecular Science - Pure and Applied Chemistry, 2019, 56, 306-315.	2.2	17
41	Transdermal Delivery of Lercanidipine Hydrochloride: Effect of Chemical Enhancers and Ultrasound. Current Drug Delivery, 2013, 10, 427-434.	1.6	16
42	A semi-supervised recurrent neural network for video salient object detection. Neural Computing and Applications, 2021, 33, 2065-2083.	5.6	14
43	Network-centric localization in MANETs based on particle swarm optimization. , 2008, , .		13
44	Glutaraldehyde- ϵ -crosslinked poly(vinyl alcohol) hydrogel discs for the controlled release of antidiabetic drug. Journal of Applied Polymer Science, 2010, 116, 1732-1738.	2.6	13
45	Development and Characterization of Sodium Alginate-Hydroxypropyl Methylcellulose-Polyester Multilayered Hydrogel Membranes for Drug Delivery through Skin. Polymer-Plastics Technology and Engineering, 2011, 50, 490-497.	1.9	13
46	A swarm intelligence based distributed localization technique for wireless sensor network. , 2012, , .		13
47	Crosslinked Alginate Films as Rate Controlling Membranes for Transdermal Drug Delivery Application. Journal of Macromolecular Science - Pure and Applied Chemistry, 2010, 47, 732-737.	2.2	11
48	Effect of Formulation Variables on Dissolution of Water-Soluble Drug from Polyelectrolyte Complex Beads. Dissolution Technologies, 2012, 19, 21-28.	0.6	10
49	Adaptive critics for dynamic optimization. Neural Networks, 2010, 23, 587-591.	5.9	8
50	Polysaccharide-based stimuli-sensitive graft copolymers for drug delivery. , 2019, , 155-177.		8
51	Synthesis and characterization of electrically responsive poly(acrylamide)-grafted-chondroitin sulfate hydrogel for transdermal drug delivery application. International Journal of Polymeric Materials and Polymeric Biomaterials, 2020, 69, 148-157.	3.4	8
52	Generalized neuron based secure media access control protocol for wireless sensor networks. , 2009, , .		6
53	Weakly supervised multi-scale recurrent convolutional neural network for co-saliency detection and co-segmentation. Neural Computing and Applications, 2020, 32, 16571-16588.	5.6	6
54	Sulfated tungstate/dioxygen: a new catalytic system for oxysulfonylation of styrenes to form β -keto sulfones. New Journal of Chemistry, 2020, 44, 10554-10561.	2.8	6

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55	Performance Enhancement in Distributed Sensor Localization Using Swarm Intelligence. , 2012, , .		5
56	Swarm Intelligence Algorithms for Medical Image Registration: A Comparative Study. Communications in Computer and Information Science, 2017, , 451-465.	0.5	5
57	Effect of L-Ascorbic Acid on Nickel-Induced Alteration of Cardiovascular Pathophysiology in Wistar Rats. Biological Trace Element Research, 2020, 195, 178-186.	3.5	5
58	Grading of Knee Osteoarthritis Using Convolutional Neural Networks. Neural Processing Letters, 2021, 53, 2985-3009.	3.2	5
59	Intra-Saliency Transfer for Effective Salient Object Detection. , 2017, , .		2
60	Electrically Triggered Transdermal Drug Delivery Utilizing Poly(Acrylamide)-graft-Guar Gum: Synthesis, Characterization and Formulation Development. Current Applied Polymer Science, 2019, 3, 64-74.	0.2	2
61	Co-saliency Detection via Extremely Weakly Supervised Convolutional Neural Network. , 2018, , .		1
62	CI-based Analytics for Photovoltaic Power Predictions and Tie-line Bias Control in Smart Grid. , 2018, , .		1
63	Low oxygen microenvironment and cardiovascular remodeling: Role of dual L/N.type Ca ²⁺ channel blocker. Indian Journal of Pharmacology, 2020, 52, 383.	0.7	1
64	Multiparticulate Drug Delivery System for the Treatment of Diabetes Mellitus: In Vitro and In Vivo Evaluation. Particulate Science and Technology, 2014, 32, 477-485.	2.1	0
65	Co-saliency Detection via Weakly Supervised Learning. , 2018, , .		0
66	An Empirical Comparison of Intelligent Controllers for the Ball and Beam System. Advances in Intelligent Systems and Computing, 2019, , 389-402.	0.6	0
67	Mobile Anchor-Assisted Localization Using Invasive Weed Optimization Algorithm. Advances in Computational Intelligence and Robotics Book Series, 2020, , 415-436.	0.4	0