

Raghavendra V Kulkarni

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Convolutional neural networks in medical image understanding: a survey. <i>Evolutionary Intelligence</i> , 2022, 15, 1-22. | 3.6 | 257 |
| 2 | A semi-supervised recurrent neural network for video salient object detection. <i>Neural Computing and Applications</i> , 2021, 33, 2065-2083. | 5.6 | 14 |
| 3 | Grading of Knee Osteoarthritis Using Convolutional Neural Networks. <i>Neural Processing Letters</i> , 2021, 53, 2985-3009. | 3.2 | 5 |
| 4 | Synthesis and characterization of electrically responsive poly(acrylamide)-grafted-chondroitin sulfate hydrogel for transdermal drug delivery application. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2020, 69, 148-157. | 3.4 | 8 |
| 5 | Weakly supervised multi-scale recurrent convolutional neural network for co-saliency detection and co-segmentation. <i>Neural Computing and Applications</i> , 2020, 32, 16571-16588. | 5.6 | 6 |
| 6 | Effect of L-Ascorbic Acid on Nickel-Induced Alteration of Cardiovascular Pathophysiology in Wistar Rats. <i>Biological Trace Element Research</i> , 2020, 195, 178-186. | 3.5 | 5 |
| 7 | Sulfated tungstate/dioxygen: a new catalytic system for oxysulfonylation of styrenes to form \hat{I}^2 -keto sulfones. <i>New Journal of Chemistry</i> , 2020, 44, 10554-10561. | 2.8 | 6 |
| 8 | Tailor-made electrically-responsive poly(acrylamide)-graft-pullulan copolymer based transdermal drug delivery systems: Synthesis, characterization, in-vitro and ex-vivo evaluation. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 56, 101525. | 3.0 | 55 |
| 9 | 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 |
| 10 | Low oxygen microenvironment and cardiovascular remodeling: Role of dual L/N.type Ca ²⁺ channel blocker. <i>Indian Journal of Pharmacology</i> , 2020, 52, 383. | 0.7 | 1 |
| 11 | Mobile Anchor-Assisted Localization Using Invasive Weed Optimization Algorithm. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2020, , 415-436. | 0.4 | 0 |
| 12 | Polysaccharide-based stimuli-sensitive graft copolymers for drug delivery. , 2019, , 155-177. | | 8 |
| 13 | Electro-responsive polyacrylamide-grafted-gum ghatti copolymer for transdermal drug delivery application. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2019, 56, 306-315. | 2.2 | 17 |
| 14 | Membranes for dehydration of alcohols via pervaporation. <i>Journal of Environmental Management</i> , 2019, 242, 415-429. | 7.8 | 91 |
| 15 | 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 |
| 16 | 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 |
| 17 | Novel biocompatible poly(acrylamide)-grafted-dextran hydrogels: Synthesis, characterization and biomedical applications. <i>Journal of Microbiological Methods</i> , 2019, 159, 200-210. | 1.6 | 60 |
| 18 | Reactive mechanism and the applications of bioactive prebiotics for human health: Review. <i>Journal of Microbiological Methods</i> , 2019, 159, 128-137. | 1.6 | 66 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | An Empirical Comparison of Intelligent Controllers for the Ball and Beam System. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 389-402. | 0.6 | 0 |
| 21 | Electrically Triggered Transdermal Drug Delivery Utilizing Poly(Acrylamide)-graft-Guar Gum: Synthesis, Characterization and Formulation Development. <i>Current Applied Polymer Science</i> , 2019, 3, 64-74. | 0.2 | 2 |
| 22 | Co-saliency Detection via Extremely Weakly Supervised Convolutional Neural Network. , 2018, , . | | 1 |
| 23 | CI-based Analytics for Photovoltaic Power Predictions and Tie-line Bias Control in Smart Grid. , 2018, , . | | 1 |
| 24 | Co-saliency Detection via Weakly Supervised Learning. , 2018, , . | | 0 |
| 25 | 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 |
| 26 | Swarm Intelligence Algorithms for Medical Image Registration: A Comparative Study. <i>Communications in Computer and Information Science</i> , 2017, , 451-465. | 0.5 | 5 |
| 27 | Novel spray dried pH-sensitive polyacrylamide- <i>g</i> -grafted- <i>co</i> -carboxymethylcellulose sodium copolymer microspheres for colon targeted delivery of an anti-cancer drug. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2017, 28, 139-161. | 3.5 | 17 |
| 28 | Intra-Saliency Transfer for Effective Salient Object Detection. , 2017, , . | | 2 |
| 29 | Multistage localization in wireless sensor networks using artificial bee colony algorithm. , 2016, , . | | 19 |
| 30 | In vitro and in vivo assessment of novel pH-sensitive interpenetrating polymer networks of a graft copolymer for gastro-protective delivery of ketoprofen. <i>RSC Advances</i> , 2016, 6, 64344-64356. | 3.6 | 19 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | Multiparticulate Drug Delivery System for the Treatment of Diabetes Mellitus: In Vitro and In Vivo Evaluation. <i>Particulate Science and Technology</i> , 2014, 32, 477-485. | 2.1 | 0 |
| 35 | 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 |
| 36 | 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 |

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|----|--|------|-----------|
| 37 | Transdermal Delivery of Lercanidipine Hydrochloride: Effect of Chemical Enhancers and Ultrasound. <i>Current Drug Delivery</i> , 2013, 10, 427-434. | 1.6 | 16 |
| 38 | A swarm intelligence based distributed localization technique for wireless sensor network. , 2012, , . | | 13 |
| 39 | Security Enhancement in Wireless Sensor Networks Using Machine Learning. , 2012, , . | | 23 |
| 40 | Performance Enhancement in Distributed Sensor Localization Using Swarm Intelligence. , 2012, , . | | 5 |
| 41 | Sonophoresisâ€‘mediated permeation and retention of peptide dendrimers across human epidermis. <i>Skin Research and Technology</i> , 2012, 18, 101-107. | 1.6 | 28 |
| 42 | 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. <i>Journal of Colloid and Interface Science</i> , 2012, 367, 509-517. | 9.4 | 144 |
| 43 | 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 |
| 44 | Effect of Formulation Variables on Dissolution of Water-Soluble Drug from Polyelectrolyte Complex Beads. <i>Dissolution Technologies</i> , 2012, 19, 21-28. | 0.6 | 10 |
| 45 | Computational Intelligence in Wireless Sensor Networks: A Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2011, 13, 68-96. | 39.4 | 559 |
| 46 | Particle Swarm Optimization in Wireless-Sensor Networks: A Brief Survey. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2011, 41, 262-267. | 2.9 | 558 |
| 47 | 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 |
| 48 | Interpenetrating polymer network microcapsules of gellan gum and egg albumin entrapped with diltiazemâ€‘resin complex for controlled release application. <i>Carbohydrate Polymers</i> , 2011, 83, 1001-1007. | 10.2 | 99 |
| 49 | Development and Characterization of Sodium Alginate-Hydroxypropyl Methylcellulose-Polyester Multilayered Hydrogel Membranes for Drug Delivery through Skin. <i>Polymer-Plastics Technology and Engineering</i> , 2011, 50, 490-497. | 1.9 | 13 |
| 50 | Polyacrylamideâ€‘g-carrageenan-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 |
| 51 | Glutaraldehydeâ€‘crosslinked poly(vinyl alcohol) hydrogel discs for the controlled release of antidiabetic drug. <i>Journal of Applied Polymer Science</i> , 2010, 116, 1732-1738. | 2.6 | 13 |
| 52 | Adaptive critics for dynamic optimization. <i>Neural Networks</i> , 2010, 23, 587-591. | 5.9 | 8 |
| 53 | Interpenetrating network hydrogel membranes of sodium alginate and poly(vinyl alcohol) for controlled release of prazosin hydrochloride through skin. <i>International Journal of Biological Macromolecules</i> , 2010, 47, 520-527. | 7.5 | 139 |
| 54 | Bio-inspired Algorithms for Autonomous Deployment and Localization of Sensor Nodes. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2010, 40, 663-675. | 2.9 | 169 |

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|----|---|-----|-----------|
| 55 | 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 |
| 56 | Interpenetrating network hydrogel beads of carboxymethylcellulose and egg albumin for controlled release of lipid lowering drug. Journal of Microencapsulation, 2010, 27, 337-344. | 2.8 | 25 |
| 57 | Electroresponsive Polyacrylamide-grafted-xanthan Hydrogels for Drug Delivery. Journal of Bioactive and Compatible Polymers, 2009, 24, 368-384. | 2.1 | 70 |
| 58 | 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 |
| 59 | Neural network based secure media access control protocol for wireless sensor networks. , 2009, , . | | 53 |
| 60 | Generalized neuron: Feedforward and recurrent architectures. Neural Networks, 2009, 22, 1011-1017. | 5.9 | 17 |
| 61 | Generalized neuron based secure media access control protocol for wireless sensor networks. , 2009, , . | | 6 |
| 62 | Bio-inspired node localization in wireless sensor networks. , 2009, , . | | 90 |
| 63 | Enteric delivery of ketoprofen through functionally modified poly(acrylamide- <i>grafted</i> -xanthan)-based pH-sensitive hydrogel beads: Preparation, <i>in vitro</i> and <i>in vivo</i> evaluation. Journal of Drug Targeting, 2008, 16, 167-177. | 4.4 | 56 |
| 64 | Evaluation of pH-Sensitivity and Drug Release Characteristics of (Polyacrylamide- <i>Grafted</i> -Xanthan)â€“Carboxymethyl Cellulose-Based pH-Sensitive Interpenetrating Network Hydrogel Beads. Drug Development and Industrial Pharmacy, 2008, 34, 1406-1414. | 2.0 | 73 |
| 65 | Network-centric localization in MANETs based on particle swarm optimization. , 2008, , . | | 13 |
| 66 | Novel pH-Sensitive Interpenetrating Network Hydrogel Beads of Carboxymethylcellulose â€“ () Tj ETQqO O O rgBT /Overlock 10 Tf 50 307 Characterization. Current Drug Delivery, 2008, 5, 256-264. | 1.6 | 65 |
| 67 | Electrically modulated transport of diclofenac salts through hydrogels of sodium alginate, carbopol, and their blend polymers. Journal of Applied Polymer Science, 2005, 96, 301-311. | 2.6 | 22 |