

# Purna Sai Korrapati

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

2,119  
citations

172386

29  
h-index

243529

44  
g-index

69  
all docs

69  
docs citations

69  
times ranked

3098  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of chitosan-polycaprolactone composite nanofibrous scaffold for simultaneous delivery of ferulic acid and resveratrol. <i>Carbohydrate Polymers</i> , 2017, 157, 1741-1749.	5.1	126
2	Electrospun zein/eudragit nanofibers based dual drug delivery system for the simultaneous delivery of aceclofenac and pantoprazole. <i>International Journal of Pharmaceutics</i> , 2012, 438, 117-122.	2.6	109
3	Design and synthesis of rhodamine based chemosensors for the detection of Fe <sup>3+</sup> ions. <i>Dyes and Pigments</i> , 2012, 95, 606-613.	2.0	103
4	Tigerinins: Novel Antimicrobial Peptides from the Indian Frog <i>Rana tigerina</i> . <i>Journal of Biological Chemistry</i> , 2001, 276, 2701-2707.	1.6	99
5	A novel FRET fluorescent probe for the selective detection of Fe <sup>3+</sup> , Al <sup>3+</sup> and Cr <sup>3+</sup> ions: Its ultrafast energy transfer kinetics and application in live cell imaging. <i>Biosensors and Bioelectronics</i> , 2015, 68, 749-756.	5.3	94
6	Recent advancements in nanotechnological strategies in selection, design and delivery of biomolecules for skin regeneration. <i>Materials Science and Engineering C</i> , 2016, 67, 747-765.	3.8	76
7	Fabrication of highly aligned fibrous scaffolds for tissue regeneration by centrifugal spinning technology. <i>Materials Science and Engineering C</i> , 2014, 42, 799-807.	3.8	70
8	Fabrication of Hybrid Collagen Aerogels Reinforced with Wheat Grass Bioactives as Instructive Scaffolds for Collagen Turnover and Angiogenesis for Wound Healing Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 16939-16950.	4.0	65
9	Fabrication of core-shell nanofibers for controlled delivery of bromelain and salvianolic acid B for skin regeneration in wound therapeutics. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 035005.	1.7	52
10	Biodegradable zein-polydopamine polymeric scaffold impregnated with TiO <sub>2</sub> nanoparticles for skin tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 055008.	1.7	48
11	Bi-faceted delivery of phytochemicals through chitosan nanoparticles impregnated nanofibers for cancer therapeutics. <i>International Journal of Biological Macromolecules</i> , 2020, 142, 201-211.	3.6	48
12	Solvent-assisted selective detection of sub-micromolar levels of Cu <sup>2+</sup> ions in aqueous samples and live-cells. <i>Analyst, The</i> , 2013, 138, 1130-1136.	1.7	47
13	Nano-biosensors and their relevance in tissue engineering. <i>Current Opinion in Biomedical Engineering</i> , 2020, 13, 84-93.	1.8	46
14	Altered angiogenic balance in keloids: a key to therapeutic intervention. <i>Translational Research</i> , 2012, 159, 182-189.	2.2	44
15	Effect of curcumin caged silver nanoparticle on collagen stabilization for biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2015, 75, 306-315.	3.6	43
16	Plumbagin caged silver nanoparticle stabilized collagen scaffold for wound dressing. <i>Journal of Materials Chemistry B</i> , 2015, 3, 1415-1425.	2.9	40
17	Biosynthesis of titanium dioxide nanoparticles using a probiotic from coal fly ash effluent. <i>Materials Research Bulletin</i> , 2013, 48, 4738-4742.	2.7	39
18	Role of Dermatopontin in re-epithelialization: Implications on keratinocyte migration and proliferation. <i>Scientific Reports</i> , 2014, 4, 7385.	1.6	39

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19	Curcumin cross-linked collagen aerogels with controlled anti-proteolytic and pro-angiogenic efficacy. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 045011.	1.7	39
20	Selectivity and sensitivity of molybdenum oxide-polycaprolactone nanofiber composites on skin cancer: Preliminary in-vitro and in-vivo implications. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018, 49, 60-71.	1.5	39
21	A TBET based BODIPY-rhodamine dyad for the ratiometric detection of trivalent metal ions and its application in live cell imaging. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 605-612.	4.0	38
22	Expression and integrity of dermatopontin in chronic cutaneous wounds: a crucial factor in impaired wound healing. <i>Cell and Tissue Research</i> , 2014, 358, 833-841.	1.5	37
23	Fabrication of electrospun zein nanofibers for the sustained delivery of siRNA. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 101.	1.7	37
24	Mesoporous silica incorporated PCL/Curcumin nanofiber for wound healing application. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 167, 106021.	1.9	36
25	Development and Characterization of Zein-Based Micro Carrier System for Sustained Delivery of Aceclofenac Sodium. <i>AAPS PharmSciTech</i> , 2012, 13, 143-149.	1.5	35
26	A naphthalimide based PET probe with Fe <sup>3+</sup> selective detection ability: theoretical and experimental study. <i>Analyst</i> , 2014, 139, 6352-6356.	1.7	35
27	Design and development of papain-urea loaded PVA nanofibers for wound debridement. <i>RSC Advances</i> , 2014, 4, 60209-60215.	1.7	33
28	Selective Interactions of Zein Microspheres with Different Class of Drugs: An In Vitro and In Silico Analysis. <i>AAPS PharmSciTech</i> , 2014, 15, 1172-1180.	1.5	32
29	Enhanced stabilization of collagen by furfural. <i>International Journal of Biological Macromolecules</i> , 2014, 65, 252-257.	3.6	31
30	Scleraldehyde as a stabilizing agent for collagen scaffold preparation. <i>Carbohydrate Polymers</i> , 2012, 87, 1482-1489.	5.1	29
31	Triiodothyronine impregnated alginate/gelatin/polyvinyl alcohol composite scaffold designed for exudate-intensive wound therapy. <i>European Polymer Journal</i> , 2019, 110, 252-264.	2.6	28
32	Fabrication of a biomimetic Zein/PDA nanofibrous scaffold impregnated with BMP-2 peptide conjugated TiO <sub>2</sub> nanoparticle for bone tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 991-1001.	1.3	27
33	In-vitro biocompatibility and corrosion resistance of electrochemically assembled PPy/TNTA hybrid material for biomedical applications. <i>Applied Surface Science</i> , 2018, 445, 320-334.	3.1	24
34	Tuning copper(ii) ion selectivity: the role of basicity, size of the chelating ring and orientation of coordinating atoms. <i>Dalton Transactions</i> , 2013, 42, 12873.	1.6	23
35	3 D nano bilayered spatially and functionally graded scaffold impregnated bromelain conjugated magnesium doped hydroxyapatite nanoparticle for periodontal regeneration. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 109, 103822.	1.5	23
36	Fabrication of a triiodothyronine incorporated nanofibrous biomaterial: its implications on wound healing. <i>RSC Advances</i> , 2015, 5, 83773-83780.	1.7	22

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37	Steering Efficacy of Nano Molybdenum Towards Cancer: Mechanism of Action. <i>Biological Trace Element Research</i> , 2020, 194, 121-134.	1.9	22
38	Efficacy of frog skin lipids in wound healing. <i>Lipids in Health and Disease</i> , 2010, 9, 74.	1.2	21
39	Dermatopontin augments angiogenesis and modulates the expression of transforming growth factor beta 1 and integrin alpha 3 beta 1 in endothelial cells. <i>European Journal of Cell Biology</i> , 2017, 96, 266-275.	1.6	20
40	Design and development of a topical dosage form for the convenient delivery of electrospun drug loaded nanofibers. <i>RSC Advances</i> , 2015, 5, 52420-52426.	1.7	19
41	Tailored release of triiodothyronine and retinoic acid from a spatio-temporally fabricated nanofiber composite instigating neuronal differentiation. <i>Nanoscale</i> , 2017, 9, 14565-14580.	2.8	19
42	Strategic design of cardiac mimetic core-shell nanofibrous scaffold impregnated with Salvianolic acid B and Magnesium l-ascorbic acid 2 phosphate for myoblast differentiation. <i>Materials Science and Engineering C</i> , 2018, 90, 131-147.	3.8	19
43	Praseodymiumâ€“Cobaltite-Reinforced Collagen as Biomimetic Scaffolds for Angiogenesis and Stem Cell Differentiation for Cutaneous Wound Healing. <i>ACS Applied Bio Materials</i> , 2019, 2, 3458-3472.	2.3	19
44	TiO <sub>2</sub> immobilized zein microspheres: a biocompatible adsorbent for effective dye decolourisation. <i>RSC Advances</i> , 2015, 5, 26475-26481.	1.7	18
45	Generation of clinical-grade red blood cells from human umbilical cord blood mononuclear cells. <i>Cell and Tissue Research</i> , 2019, 375, 437-449.	1.5	15
46	Synthesis and fabrication of amine functionalized SBA-15 incorporated PVA/Curcumin nanofiber for skin wound healing application. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 637, 128185.	2.3	15
47	Dinuclear phenoxo-bridged â€œend-offâ€ complexes containing a piperazine that shows chemical nuclease and cytotoxic activities. <i>Journal of Coordination Chemistry</i> , 2014, 67, 1794-1808.	0.8	14
48	Effect of magnesium ascorbyl phosphate on collagen stabilization for wound healing application. <i>International Journal of Biological Macromolecules</i> , 2021, 166, 333-341.	3.6	13
49	Collagen scaffold reinforced with furfural for wound healing application. <i>Materials Letters</i> , 2022, 315, 131956.	1.3	13
50	Strategic design of peptideâ€“decorated aligned nanofibers impregnated with triiodothyronine for neural regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 753-770.	1.3	12
51	Electrospun gelatinâ€“polyethylenimine blend nanofibrous scaffold for biomedical applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 129.	1.7	12
52	Fabrication of homobifunctional crosslinker stabilized collagen for biomedical application. <i>Biomedical Materials (Bristol)</i> , 2015, 10, 065015.	1.7	11
53	Keloid collagenâ€“cell interactions: structural and functional perspective. <i>RSC Advances</i> , 2014, 4, 23642-23648.	1.7	10
54	Nano-caged shikimate as a multi-site cross-linker of collagen for biomedical applications. <i>RSC Advances</i> , 2015, 5, 22106-22116.	1.7	8

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55	Nanofiber-Mediated Sustained Delivery of Triiodothyronine: Role in Angiogenesis. AAPS PharmSciTech, 2019, 20, 110.	1.5	7
56	Nanotized praseodymium oxide collagen 3-D pro-vasculogenic biomatrix for soft tissue engineering. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 33, 102364.	1.7	7
57	Lanthanum oxide nanoparticle-collagen bio matrix induced endothelial cell activation for sustained angiogenic response for biomaterial integration. Colloids and Surfaces B: Biointerfaces, 2022, 216, 112589.	2.5	7
58	Nanoscaled Biodegradable Metal-Polymeric Three-Dimensional Framework for Endothelial Cell Patterning and Sustained Angiogenesis. ACS Biomaterials Science and Engineering, 2019, 5, 2519-2531.	2.6	6
59	Furfural mediated synthesis of silver nanoparticles for photocatalytic reduction of hexavalent chromium. Environmental Technology and Innovation, 2021, 21, 101348.	3.0	5
60	Targeting Pyruvate Kinase M2, $\beta$ -Catenin Signaling by Juglone Silver Nano Framework for Selective Cancer Cell Death. ChemistrySelect, 2018, 3, 2894-2903.	0.7	4
61	Applications of molybdenum oxide nanoparticles impregnated collagen scaffolds in wound therapeutics. Journal of Trace Elements in Medicine and Biology, 2022, 72, 126983.	1.5	4
62	Antioxidant, DNA interaction, molecular docking and cytotoxicity studies of aminoethylpiperazine-containing macrocyclic binuclear copper(II) complexes. Applied Organometallic Chemistry, 2017, 31, e3669.	1.7	3
63	A critical appraisal of humanized alternatives to fetal bovine serum for clinical applications of umbilical cord derived mesenchymal stromal cells. Biotechnology Letters, 2021, 43, 2067-2083.	1.1	3
64	Bi-Functional Aspects of Peptide Decorated PLGA Nanocarriers for Enhanced Translocation Across the Blood-Brain Barrier through Macropinocytosis. Macromolecular Research, 2022, 30, 557-570.	1.0	3
65	Isolation, growth kinetics, and immunophenotypic characterization of adult human cardiac progenitor cells. Journal of Cellular Physiology, 2021, 236, 1840-1853.	2.0	1
66	Electrospun multifaceted nanocomposites for promoting angiogenesis in curing burn wound. Journal of Drug Delivery Science and Technology, 2022, 73, 103425.	1.4	1
67	Regulatory significance of CULLIN2 in neuronal differentiation and regeneration. Neurochemistry International, 2022, 159, 105386.	1.9	0