

# Pooyan Makvandi

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/8356960/pooyan-makvandi-publications-by-citations.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

116  
papers

3,377  
citations

33  
h-index

53  
g-index

136  
ext. papers

5,665  
ext. citations

8.4  
avg, IF

6.36  
L-index

#	Paper	IF	Citations
116	Wound healing and antimicrobial effect of active secondary metabolites in chitosan-based wound dressings: A review. <i>Carbohydrate Polymers</i> , <b>2020</b> , 233, 115839	10.3	212
115	Metal-Based Nanomaterials in Biomedical Applications: Antimicrobial Activity and Cytotoxicity Aspects. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910021	15.6	210
114	Progress in Conductive Polyaniline-Based Nanocomposites for Biomedical Applications: A Review. <i>Journal of Medicinal Chemistry</i> , <b>2020</b> , 63, 1-22	8.3	158
113	Antibacterial quaternary ammonium compounds in dental materials: A systematic review. <i>Dental Materials</i> , <b>2018</b> , 34, 851-867	5.7	148
112	Biosynthesis and characterization of antibacterial thermosensitive hydrogels based on corn silk extract, hyaluronic acid and nanosilver for potential wound healing. <i>Carbohydrate Polymers</i> , <b>2019</b> , 223, 115023	10.3	105
111	Recent progress in the industrial and biomedical applications of tragacanth gum: A review. <i>Carbohydrate Polymers</i> , <b>2019</b> , 212, 450-467	10.3	102
110	Advances in Antimicrobial Microneedle Patches for Combating Infections. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002129	24	102
109	Hyaluronic acid/corn silk extract based injectable nanocomposite: A biomimetic antibacterial scaffold for bone tissue regeneration. <i>Materials Science and Engineering C</i> , <b>2020</b> , 107, 110195	8.3	92
108	Polymeric and inorganic nanoscopic antimicrobial fillers in dentistry. <i>Acta Biomaterialia</i> , <b>2020</b> , 101, 69-101	10.8	91
107	Metal-Based Nanostructures/PLGA Nanocomposites: Antimicrobial Activity, Cytotoxicity, and Their Biomedical Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 3279-3300	9.5	77
106	In vivo gene delivery mediated by non-viral vectors for cancer therapy. <i>Journal of Controlled Release</i> , <b>2020</b> , 325, 249-275	11.7	74
105	Antimicrobial gum bio-based nanocomposites and their industrial and biomedical applications. <i>Chemical Communications</i> , <b>2019</b> , 55, 14871-14885	5.8	62
104	Advances in Antimicrobial Organic and Inorganic Nanocompounds in Biomedicine. <i>Advanced Therapeutics</i> , <b>2020</b> , 3, 2000024	4.9	57
103	Self-Assembled Carbohydrate Polymers for Food Applications: A Review. <i>Comprehensive Reviews in Food Science and Food Safety</i> , <b>2019</b> , 18, 2009-2024	16.4	56
102	Regulation of Nuclear Factor-KappaB (NF- $\kappa$ B) signaling pathway by non-coding RNAs in cancer: Inhibiting or promoting carcinogenesis?. <i>Cancer Letters</i> , <b>2021</b> , 509, 63-80	9.9	54
101	Progress in Microneedle-Mediated Protein Delivery. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	52
100	Functionalization of polymers and nanomaterials for water treatment, food packaging, textile and biomedical applications: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 583-611	13.3	52

99	Performance properties and antibacterial activity of crosslinked films of quaternary ammonium modified starch and poly(vinyl alcohol). <i>International Journal of Biological Macromolecules</i> , <b>2015</b> , 80, 596-604	7.9	50
98	Synthesis and characterization of photo-curable bis-quaternary ammonium dimethacrylate with antimicrobial activity for dental restoration materials. <i>European Polymer Journal</i> , <b>2016</b> , 74, 81-90	5.2	49
97	3D and 4D printing in dentistry and maxillofacial surgery: Printing techniques, materials, and applications. <i>Acta Biomaterialia</i> , <b>2021</b> , 122, 26-49	10.8	48
96	Photocurable, Antimicrobial Quaternary Ammonium-modified Nanosilica. <i>Journal of Dental Research</i> , <b>2015</b> , 94, 1401-7	8.1	47
95	4D-Printed Dynamic Materials in Biomedical Applications: Chemistry, Challenges, and Their Future Perspectives in the Clinical Sector. <i>Journal of Medicinal Chemistry</i> , <b>2020</b> , 63, 8003-8024	8.3	47
94	Antimicrobial modified hydroxyapatite composite dental bite by stereolithography. <i>Polymers for Advanced Technologies</i> , <b>2018</b> , 29, 364-371	3.2	45
93	Biomedical application of chitosan-based nanoscale delivery systems: Potential usefulness in siRNA delivery for cancer therapy. <i>Carbohydrate Polymers</i> , <b>2021</b> , 260, 117809	10.3	42
92	Versatile role of curcumin and its derivatives in lung cancer therapy. <i>Journal of Cellular Physiology</i> , <b>2020</b> , 235, 9241-9268	7	41
91	Engineering Microneedle Patches for Improved Penetration: Analysis, Skin Models and Factors Affecting Needle Insertion. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 93	19.5	40
90	Self-assembled peptide and protein nanostructures for anti-cancer therapy: Targeted delivery, stimuli-responsive devices and immunotherapy. <i>Nano Today</i> , <b>2021</b> , 38,	17.9	36
89	Drug Delivery (Nano)Platforms for Oral and Dental Applications: Tissue Regeneration, Infection Control, and Cancer Management. <i>Advanced Science</i> , <b>2021</b> , 8, 2004014	13.6	36
88	Progress in Delivery of siRNA-Based Therapeutics Employing Nano-Vehicles for Treatment of Prostate Cancer. <i>Bioengineering</i> , <b>2020</b> , 7,	5.3	35
87	Nrf2 signaling pathway in cisplatin chemotherapy: Potential involvement in organ protection and chemoresistance. <i>Pharmacological Research</i> , <b>2021</b> , 167, 105575	10.2	35
86	Antibacterial tragacanth gum-based nanocomposite films carrying ascorbic acid antioxidant for bioactive food packaging. <i>Carbohydrate Polymers</i> , <b>2020</b> , 247, 116678	10.3	33
85	Polychemotherapy with Curcumin and Doxorubicin via Biological Nanoplatfoms: Enhancing Antitumor Activity. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	33
84	Stimuli-responsive transdermal microneedle patches. <i>Materials Today</i> , <b>2021</b> , 47, 206-222	21.8	33
83	Lung cancer cells and their sensitivity/resistance to cisplatin chemotherapy: Role of microRNAs and upstream mediators. <i>Cellular Signalling</i> , <b>2021</b> , 78, 109871	4.9	32
82	A review on advances in graphene-derivative/polysaccharide bionanocomposites: Therapeutics, pharmacogenomics and toxicity. <i>Carbohydrate Polymers</i> , <b>2020</b> , 250, 116952	10.3	31

81	Toxicity and remediation of pharmaceuticals and pesticides using metal oxides and carbon nanomaterials. <i>Chemosphere</i> , <b>2021</b> , 275, 130055	8.4	31
80	Progress in Natural Compounds/siRNA Co-delivery Employing Nanovehicles for Cancer Therapy. <i>ACS Combinatorial Science</i> , <b>2020</b> , 22, 669-700	3.9	30
79	Antimicrobial Ionic Liquid-Based Materials for Biomedical Applications. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104148	15.6	30
78	Cytotoxic aquatic pollutants and their removal by nanocomposite-based sorbents. <i>Chemosphere</i> , <b>2020</b> , 258, 127324	8.4	29
77	The role of microRNA-338-3p in cancer: growth, invasion, chemoresistance, and mediators. <i>Life Sciences</i> , <b>2021</b> , 268, 119005	6.8	29
76	Employing siRNA tool and its delivery platforms in suppressing cisplatin resistance: Approaching to a new era of cancer chemotherapy. <i>Life Sciences</i> , <b>2021</b> , 277, 119430	6.8	29
75	STAT3 Pathway in Gastric Cancer: Signaling, Therapeutic Targeting and Future Prospects. <i>Biology</i> , <b>2020</b> , 9,	4.9	28
74	Small interfering RNA (siRNA) to target genes and molecular pathways in glioblastoma therapy: Current status with an emphasis on delivery systems. <i>Life Sciences</i> , <b>2021</b> , 275, 119368	6.8	25
73	Hyaluronic acid-based nanoplatfoms for Doxorubicin: A review of stimuli-responsive carriers, co-delivery and resistance suppression. <i>Carbohydrate Polymers</i> , <b>2021</b> , 272, 118491	10.3	25
72	Biofabricated Nanostructures and Their Composites in Regenerative Medicine. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 6210-6238	5.6	24
71	Engineered Microneedle Patches for Controlled Release of Active Compounds: Recent Advances in Release Profile Tuning. <i>Advanced Therapeutics</i> , <b>2020</b> , 3, 2000171	4.9	24
70	Effect of silver nanoparticle on the properties of poly(methyl methacrylate) nanocomposite network made by in situ photoiniferter-mediated photopolymerization. <i>Bulletin of Materials Science</i> , <b>2015</b> , 38, 1625-1631	1.7	23
69	Apigenin as Tumor Suppressor in Cancers: Biotherapeutic Activity, Nanodelivery, and Mechanisms With Emphasis on Pancreatic Cancer. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 829	5	23
68	Functionalization of Polymers and Nanomaterials for Biomedical Applications: Antimicrobial Platforms and Drug Carriers. <i>Prosthesis</i> , <b>2020</b> , 2, 117-139	4.7	22
67	Advances in biogenically synthesized shaped metal- and carbon-based nanoarchitectures and their medicinal applications. <i>Advances in Colloid and Interface Science</i> , <b>2020</b> , 283, 102236	14.3	21
66	Turning Toxic Nanomaterials into a Safe and Bioactive Nanocarrier for Co-delivery of DOX/pCRISPR.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 5336-5351	4.1	21
65	Bioactive Carboxymethyl Starch-Based Hydrogels Decorated with CuO Nanoparticles: Antioxidant and Antimicrobial Properties and Accelerated Wound Healing In Vivo. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	20
64	Interplay between SOX9 transcription factor and microRNAs in cancer. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 183, 681-694	7.9	19

63	An overview on non-spherical semiconductors for heterogeneous photocatalytic degradation of organic water contaminants. <i>Chemosphere</i> , <b>2021</b> , 280, 130907	8.4	19
62	The role of SOX family transcription factors in gastric cancer. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 180, 608-624	7.9	18
61	Recent advances in bioprinting technologies for engineering different cartilage-based tissues. <i>Materials Science and Engineering C</i> , <b>2021</b> , 123, 112005	8.3	16
60	Chitosan nanofiber biocomposites for potential wound healing applications: Antioxidant activity with synergic antibacterial effect.. <i>Bioengineering and Translational Medicine</i> , <b>2022</b> , 7, e10254	14.8	16
59	Electrospun fibers based on carbohydrate gum polymers and their multifaceted applications. <i>Carbohydrate Polymers</i> , <b>2020</b> , 247, 116705	10.3	15
58	Oxygen releasing materials: Towards addressing the hypoxia-related issues in tissue engineering. <i>Materials Science and Engineering C</i> , <b>2021</b> , 122, 111896	8.3	15
57	Electrospun fibers based on botanical, seaweed, microbial, and animal sourced biomacromolecules and their multidimensional applications. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 171, 130-149	7.9	15
56	drug delivery applications of nanogels: a review. <i>Nanomedicine</i> , <b>2020</b> , 15, 2707-2727	5.6	14
55	Recent advances in bioprinting technologies for engineering cardiac tissue. <i>Materials Science and Engineering C</i> , <b>2021</b> , 124, 112057	8.3	14
54	Gum polysaccharide/nanometal hybrid biocomposites in cancer diagnosis and therapy. <i>Biotechnology Advances</i> , <b>2021</b> , 48, 107711	17.8	14
53	AIE-featured tetraphenylethylene nanoarchitectures in biomedical application: Bioimaging, drug delivery and disease treatment. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 447, 214135	23.2	14
52	Toward Regulatory Effects of Curcumin on Transforming Growth Factor-Beta Across Different Diseases: A Review. <i>Frontiers in Pharmacology</i> , <b>2020</b> , 11, 585413	5.6	13
51	Water decontamination using bio-based, chemically functionalized, doped, and ionic liquid-enhanced adsorbents: review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 3075-3114	13.3	13
50	Nanobased Platforms for Diagnosis and Treatment of COVID-19: From Benchtop to Bedside. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 2150-2176	5.5	13
49	Mesoporous Bioactive Glasses in Cancer Diagnosis and Therapy: Stimuli-Responsive, Toxicity, Immunogenicity, and Clinical Translation. <i>Advanced Science</i> , <b>2021</b> , e2102678	13.6	12
48	Functionalization of Magnetic Nanoparticles by Folate as Potential MRI Contrast Agent for Breast Cancer Diagnostics. <i>Molecules</i> , <b>2020</b> , 25,	4.8	12
47	Ionic liquid-based antimicrobial materials for water treatment, air filtration, food packaging and anticorrosion coatings. <i>Advances in Colloid and Interface Science</i> , <b>2021</b> , 294, 102454	14.3	12
46	Gallic acid for cancer therapy: Molecular mechanisms and boosting efficacy by nanoscopy delivery. <i>Food and Chemical Toxicology</i> , <b>2021</b> , 157, 112576	4.7	12

45	A reduced graphene oxide-β-cyclodextrin nanocomposite-based electrode for electrochemical detection of curcumin.. <i>RSC Advances</i> , <b>2021</b> , 11, 7862-7872	3.7	12
44	Folic Acid-Adorned Curcumin-Loaded Iron Oxide Nanoparticles for Cervical Cancer.. <i>ACS Applied Bio Materials</i> , <b>2022</b> ,	4.1	12
43	Smart Adsorbents for Aquatic Environmental Remediation. <i>Small</i> , <b>2021</b> , 17, e2007840	11	11
42	Natural Formulations Provide Antioxidant Complement to Hyaluronic Acid-Based Topical Applications Used in Wound Healing. <i>Polymers</i> , <b>2020</b> , 12,	4.5	10
41	Pre-clinical investigation of STAT3 pathway in bladder cancer: Paving the way for clinical translation. <i>Biomedicine and Pharmacotherapy</i> , <b>2021</b> , 133, 111077	7.5	10
40	Prevascularized Micro-/Nano-Sized Spheroid/Bead Aggregates for Vascular Tissue Engineering. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 182	19.5	10
39	Nonspherical Metal-Based Nanoarchitectures: Synthesis and Impact of Size, Shape, and Composition on Their Biological Activity. <i>Small</i> , <b>2021</b> , 17, e2007073	11	9
38	Electroconductive multi-functional polypyrrole composites for biomedical applications. <i>Applied Materials Today</i> , <b>2021</b> , 24, 101117	6.6	9
37	Endocytosis of abiotic nanomaterials and nanobiovectors: Inhibition of membrane trafficking. <i>Nano Today</i> , <b>2021</b> , 40, 101279	17.9	9
36	Polymer conjugation optimizes EDTA as a calcium-chelating agent that exclusively removes extrafibrillar minerals from mineralized collagen. <i>Acta Biomaterialia</i> , <b>2019</b> , 90, 424-440	10.8	8
35	Paper-Based Cell Culture: Paving the Pathway for Liver Tissue Model Development on a Cellulose Paper Chip.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 3956-3974	4.1	8
34	Advances in tannic acid-incorporated biomaterials: Infection treatment, regenerative medicine, cancer therapy, and biosensing. <i>Chemical Engineering Journal</i> , <b>2022</b> , 432, 134146	14.7	8
33	The Molecular Basis of COVID-19 Pathogenesis, Conventional and Nanomedicine Therapy. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	8
32	Recent advances in chemically defined and tunable hydrogel platforms for organoid culture. <i>Bio-Design and Manufacturing</i> , <b>2021</b> , 4, 641-674	4.7	8
31	Fabrication of a Greener TiO@Gum Arabic-Carbon Paste Electrode for the Electrochemical Detection of Pb Ions in Plastic Toys. <i>ACS Omega</i> , <b>2020</b> , 5, 25390-25399	3.9	7
30	Non-spherical nanostructures in nanomedicine: From noble metal nanorods to transition metal dichalcogenide nanosheets. <i>Applied Materials Today</i> , <b>2021</b> , 24, 101107	6.6	7
29	Bioinspired microneedle patches: Biomimetic designs, fabrication, and biomedical applications. <i>Matter</i> , <b>2022</b> , 5, 390-429	12.7	6
28	Nanotechnology-Abetted Astaxanthin Formulations in Multimodel Therapeutic and Biomedical Applications.. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> ,	8.3	6

27	Injectable hyaluronic acid-based antibacterial hydrogel adorned with biogenically synthesized AgNPs-decorated multi-walled carbon nanotubes. <i>Progress in Biomaterials</i> , <b>2021</b> , 10, 77-89	4.4	6
26	Lawson-encapsulated chitosan/polyethylene oxide nanofibrous mat as a potential antibacterial biobased wound dressing. <i>Engineered Regeneration</i> , <b>2021</b> , 2, 219-226	5.2	5
25	Advances in Bio-Based Polymers for Colorectal Cancer Treatment: Hydrogels and Nanoplatfoms. <i>Gels</i> , <b>2021</b> , 7,	4.2	5
24	Engineering biomimetic intestinal topological features in 3D tissue models: retrospects and prospects. <i>Bio-Design and Manufacturing</i> , <b>2021</b> , 4, 568-595	4.7	5
23	Doxorubicin-loaded graphene oxide nanocomposites in cancer medicine: Stimuli-responsive carriers, co-delivery and suppressing resistance.. <i>Expert Opinion on Drug Delivery</i> , <b>2022</b> ,	8	5
22	Recent advances in bioprinting technologies for engineering hepatic tissue. <i>Materials Science and Engineering C</i> , <b>2021</b> , 123, 112013	8.3	4
21	A perspective on the applications of functionalized nanogels: promises and challenges. <i>International Materials Reviews</i> ,1-25	16.1	3
20	Antimicrobial Metal-Based Nanomaterials and Their Industrial and Biomedical Applications. <i>Materials Horizons</i> , <b>2020</b> , 123-134	0.6	3
19	Nanoparticles and nanofibres based on tree gums: Biosynthesis and applications. <i>Comprehensive Analytical Chemistry</i> , <b>2021</b> , 94, 223-265	1.9	3
18	Biodegradable antibacterial and antioxidant nanocomposite films based on dextrin for bioactive food packaging. <i>Journal of Nanostructure in Chemistry</i> ,1	7.6	3
17	Advances in Hyaluronic-Acid-Based (Nano)Devices for Cancer Therapy. <i>Macromolecular Bioscience</i> , <b>2021</b> , e2100304	5.5	2
16	A progressive review on paper-based bacterial colorimetric detection and antimicrobial susceptibility testing <b>2021</b> , 687-718		2
15	A Hyaluronic Acid-Based Formulation with Simultaneous Local Drug Delivery and Antioxidant Ability for Active Viscosupplementation.. <i>ACS Omega</i> , <b>2022</b> , 7, 10039-10048	3.9	2
14	The association of clinicopathological characterizations of colorectal cancer with membrane-bound mucins genes and LncRNAs.. <i>Pathology Research and Practice</i> , <b>2022</b> , 233, 153883	3.4	2
13	Bioactive hybrid metal-organic framework (MOF)-based nanosensors for optical detection of recombinant SARS-CoV-2 spike antigen.. <i>Science of the Total Environment</i> , <b>2022</b> , 153902	10.2	2
12	Ionic liquid-mediated synthesis of metal nanostructures: Potential application in cancer diagnosis and therapy. <i>Journal of Ionic Liquids</i> , <b>2022</b> , 100033		2
11	Chitosan/alginate bionanocomposites adorned with mesoporous silica nanoparticles for bone tissue engineering. <i>Journal of Nanostructure in Chemistry</i> ,	7.6	2
10	The Optimized Formulation of Tamoxifen-Loaded Niosomes Efficiently Induced Apoptosis and Cell Cycle Arrest in Breast Cancer Cells.. <i>AAPS PharmSciTech</i> , <b>2022</b> , 23, 57	3.9	1

9	Conference Accreditation and Need of a Bibliometric Measure to Distinguish Predatory Conferences. <i>Publications</i> , <b>2021</b> , 9, 16	1.7	1
8	In response to "Comment on "Regulation of Nuclear Factor-KappaB (NF- $\kappa$ B) signaling pathway by non-coding RNAs in cancer: Inhibiting or promoting carcinogenesis?" Cancer Lett. 2021 May 2; 509 (2021) 63-80". <i>Cancer Letters</i> , <b>2021</b> , 516, 36-37	9.9	1
7	Electroconductive and photoactive poly(phenylenediamine)s with antioxidant and antimicrobial activities for potential photothermal therapy. <i>New Journal of Chemistry</i> , <b>2022</b> , 46, 6255-6266	3.6	1
6	Synthesis of green benzamide-decorated UiO-66-NH for biomedical applications.. <i>Chemosphere</i> , <b>2022</b> , 299, 134359	8.4	0
5	Co-Delivery of Nano-Silver and Vancomycin via Silica Nanopollens for Enhanced Antibacterial Functions. <i>Antibiotics</i> , <b>2022</b> , 11, 685	4.9	0
4	Surface Reactive and Active Polymers <b>2020</b> , 35-54		
3	Biomacromolecule-mediated pulmonary delivery of siRNA and anti-sense oligos: challenges and possible solutions.. <i>Expert Reviews in Molecular Medicine</i> , <b>2021</b> , 23, e22	6.7	
2	Gelatin-chitosan macroporous scaffolds integrated with customizable hollow channels for liver tissue engineering <b>2021</b> , 667-685		
1	Micro and Nano Sensors from Additive Manufacturing. <i>Journal of Nanomaterials</i> , <b>2022</b> , 2022, 1-2	3.2	