

# Nathan Ravi

## List of Publications by Citations

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

26  
papers

561  
citations

15  
h-index

23  
g-index

26  
ext. papers

665  
ext. citations

4.9  
avg, IF

3.93  
L-index

#	Paper	IF	Citations
26	Vitreous substitutes: a comprehensive review. <i>Survey of Ophthalmology</i> , <b>2011</b> , 56, 300-23	6.1	140
25	Optimizing the Synthesis of Red-Emissive Nitrogen-Doped Carbon Dots for Use in Bioimaging. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 3682-3692	5.6	51
24	Biocompatibility of gold nanoparticles in retinal pigment epithelial cell line. <i>Toxicology in Vitro</i> , <b>2016</b> , 37, 61-69	3.6	46
23	Biomimetic hydrogel with tunable mechanical properties for vitreous substitutes. <i>Acta Biomaterialia</i> , <b>2016</b> , 43, 327-337	10.8	38
22	Characterization of the network properties of poly(ethylene glycol)acrylate hydrogels prepared by variations in the ethanol/water solvent composition during crosslinking copolymerization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2002</b> , 40, 2677-2684	2.6	24
21	Hyaluronate coating enhances the delivery and biocompatibility of gold nanoparticles. <i>Carbohydrate Polymers</i> , <b>2018</b> , 186, 243-251	10.3	23
20	Synthesis and characterization of in situ forming anionic hydrogel as vitreous substitutes. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2017</b> , 105, 977-988	3.5	22
19	Comparison of the behavior of natural and refilled porcine lenses in a robotic lens stretcher. <i>Experimental Eye Research</i> , <b>2009</b> , 88, 483-94	3.7	22
18	Hyaluronan-Conjugated Carbon Quantum Dots for Bioimaging Use. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 277-286	9.5	22
17	Hydrogel Nanocomposite as a Synthetic Intra-Ocular Lens Capable of Accommodation. <i>Macromolecular Symposia</i> , <b>2005</b> , 227, 191-202	0.8	18
16	Formation of nanogel aggregates by an amphiphilic cholesteryl-poly(amidoamine) dendrimer in aqueous media. <i>Journal of Polymer Science Part A</i> , <b>2007</b> , 45, 2569-2575	2.5	17
15	Synthesis and Characterization of Injectable Sulfonate-Containing Hydrogels. <i>Biomacromolecules</i> , <b>2016</b> , 17, 4064-4074	6.9	16
14	Investigating thiol-modification on hyaluronan via carbodiimide chemistry using response surface methodology. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2015</b> , 103, 2300-8	5.4	16
13	Hydrogels as potential probes for investigating the mechanism of lenticular presbyopia. <i>Current Eye Research</i> , <b>2001</b> , 22, 384-93	2.9	16
12	Development of a Vitreous Substitute: Incorporating Charges and Fibrous Structures in Synthetic Hydrogel Materials. <i>Macromolecules</i> , <b>2016</b> , 49, 4619-4626	5.5	15
11	Material characterization of porcine lenticular soluble proteins. <i>Biomacromolecules</i> , <b>2008</b> , 9, 1519-26	6.9	12
10	Bioinspired Thermosensitive Hydrogel as a Vitreous Substitute: Synthesis, Properties, and Progress of Animal Studies. <i>Materials</i> , <b>2020</b> , 13,	3.5	11

9	Bioinspired Fibrillary Hydrogel with Controlled Swelling Behavior: Applicability as an Artificial Vitreous.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 70-80	4.1	11
8	Preparation and Characterization of Biomimetic Lens Crystallins Using Single-Chain Polymeric Nanoparticles. <i>Langmuir</i> , <b>2017</b> , 33, 7660-7668	4	10
7	Surface Hydrophobic Modification of Fifth-Generation Hydroxyl-Terminated Poly(amidoamine) Dendrimers and Its Effect on Biocompatibility and Rheology. <i>Materials</i> , <b>2009</b> , 2, 883-902	3.5	9
6	Investigating the Effects of Stove Emissions on Ocular and Cancer Cells. <i>Scientific Reports</i> , <b>2019</b> , 9, 1870	4.9	8
5	Investigating triazine-based modification of hyaluronan using statistical designs. <i>Carbohydrate Polymers</i> , <b>2015</b> , 132, 472-80	10.3	7
4	Redox-Responsive Hyaluronic Acid-Based Nanogels for the Topical Delivery of the Visual Chromophore to Retinal Photoreceptors. <i>ACS Omega</i> , <b>2021</b> , 6, 6172-6184	3.9	5
3	Hyaluronic Acid-Based Gold Nanoparticles for the Topical Delivery of Therapeutics to the Retina and the Retinal Pigment Epithelium. <i>Polymers</i> , <b>2021</b> , 13,	4.5	2
2	A Novel Use for Real Time Locating Systems. <i>International Journal of Healthcare Delivery Reform Initiatives</i> , <b>2010</b> , 2, 11-19		
1	Discrete Event Simulation and Real Time Locating Systems. <i>International Journal of E-Adoption</i> , <b>2012</b> , 4, 16-28	0.4	