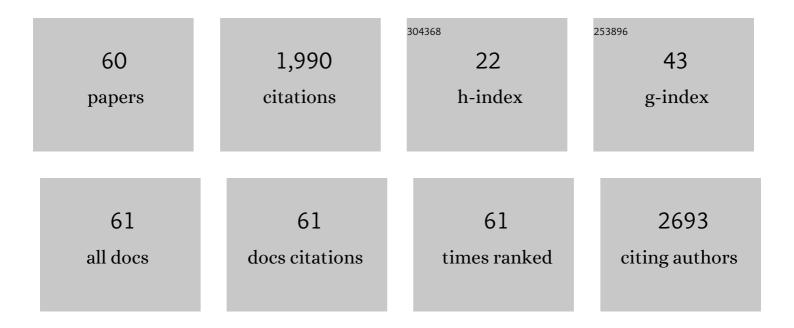
Javad Tavakoli

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Hyperbranched polymers tune the physicochemical, mechanical, and biomedical properties of alginate hydrogels. Materials Today Chemistry, 2022, 23, 100656.	1.7	10
2	Developing Novel Fabrication and Optimisation Strategies on Aggregation-Induced Emission Nanoprobe/Polyvinyl Alcohol Hydrogels for Bio-Applications. Molecules, 2022, 27, 1002.	1.7	2
3	Detailed mechanical characterization of the transition zone: New insight into the integration between the annulus and nucleus of the intervertebral disc. Acta Biomaterialia, 2022, 143, 87-99.	4.1	3
4	Understanding the lipid production mechanism in Euglena gracilis with a fast-response AIEgen bioprobe, DPAS. Materials Chemistry Frontiers, 2021, 5, 268-283.	3.2	11
5	Revisiting an ancient inorganic aggregationâ€induced emission system: An enlightenment to clusteroluminescence. Aggregate, 2021, 2, e36.	5.2	40
6	Aggregation-Induced Emission Fluorescent Gels: Current Trends and Future Perspectives. Topics in Current Chemistry, 2021, 379, 9.	3.0	12
7	Modeling of human intervertebral disc annulus fibrosus with complex multi-fiber networks. Acta Biomaterialia, 2021, 123, 208-221.	4.1	26
8	Magnetic resonance elastography: A non-invasive biomarker for low back pain studies. Biomedical Engineering Advances, 2021, 2, 100014.	2.2	0
9	Tuning aggregation-induced emission nanoparticle properties under thin film formation. Materials Chemistry Frontiers, 2020, 4, 537-545.	3.2	21
10	Mechanisms of Failure Following Simulated Repetitive Lifting. Spine, 2020, 45, 357-367.	1.0	7
11	Advanced Strategies for the Regeneration of Lumbar Disc Annulus Fibrosus. International Journal of Molecular Sciences, 2020, 21, 4889.	1.8	28
12	Elastic fibers: The missing key to improve engineering concepts for reconstruction of the Nucleus Pulposus in the intervertebral disc. Acta Biomaterialia, 2020, 113, 407-416.	4.1	20
13	The ultrastructural organization of elastic fibers at the interface of the nucleus and annulus of the intervertebral disk. Acta Biomaterialia, 2020, 114, 323-332.	4.1	15
14	Tuning Surface Morphology of Fluorescent Hydrogels Using a Vortex Fluidic Device. Molecules, 2020, 25, 3445.	1.7	4
15	Artificial intelligence enhanced mathematical modeling on rotary triboelectric nanogenerators under various kinematic and geometric conditions. Nano Energy, 2020, 75, 104993.	8.2	24
16	Vortex fluidic enabling and significantly boosting light intensity of graphene oxide with aggregation induced emission luminogen. Materials Chemistry Frontiers, 2020, 4, 2126-2130.	3.2	8
17	Synthetic fluorescent probes to apprehend calcium signalling in lipid droplet accumulation in microalgae—an updated review. Science China Chemistry, 2020, 63, 308-324.	4.2	5
18	A hyper-branched polymer tunes the size and enhances the fluorescent properties of aggregation-induced emission nanoparticles. Nanoscale Advances, 2020, 2, 633-641.	2.2	9

JAVAD TAVAKOLI

#	Article	lF	CITATIONS
19	Vortex fluidic mediated one-step fabrication of polyvinyl alcohol hydrogel films with tunable surface morphologies and enhanced self-healing properties. Science China Materials, 2020, 63, 1310-1317.	3.5	9
20	Natural-based Hydrogels: A Journey from Simple to Smart Networks for Medical Examination. Current Medicinal Chemistry, 2020, 27, 2704-2733.	1.2	13
21	Erythromycin Releasing PVA/sucrose and PVA/honey Hydrogels as Wound Dressings with Antibacterial Activity and Enhanced Bio-adhesion. Iranian Journal of Pharmaceutical Research, 2020, 19, 448-464.	0.3	10
22	AlEgen quantitatively monitoring the release of Ca2+ during swelling and degradation process in alginate hydrogels. Materials Science and Engineering C, 2019, 104, 109951.	3.8	17
23	Simulation of high-output and lightweight sliding-mode triboelectric nanogenerators. Nano Energy, 2019, 66, 104115.	8.2	19
24	Bacterial cellulose production, properties and applications with different culture methods – A review. Carbohydrate Polymers, 2019, 219, 63-76.	5.1	444
25	Enlightening Freeze–Thaw Process of Physically Cross-Linked Poly(vinyl alcohol) Hydrogels by Aggregation-Induced Emission Fluorogens. ACS Applied Polymer Materials, 2019, 1, 1390-1398.	2.0	36
26	Aggregation-induced emission lights up the swelling process: a new technique for swelling characterisation of hydrogels. Materials Chemistry Frontiers, 2019, 3, 664-667.	3.2	25
27	Understanding interfacial interactions of polydopamine and glass fiber and their enhancement mechanisms in epoxy-based laminates. Composites Part A: Applied Science and Manufacturing, 2019, 116, 62-71.	3.8	45
28	Effect of Honey/PVA Hydrogel Loaded by Erythromycin on Full-Thickness Skin Wound Healing in Rats; Stereological Study. Galen, 2019, 8, e1362.	0.6	1
29	Surface morphology characterization of laser-induced titanium implants: lesson to enhance osseointegration process. Biomedical Engineering Letters, 2018, 8, 249-257.	2.1	24
30	Polydopamine as sizing on carbon fiber surfaces for enhancement of epoxy laminated composites. Composites Part A: Applied Science and Manufacturing, 2018, 107, 626-632.	3.8	72
31	Ultrastructural organization of elastic fibres in the partition boundaries of the annulus fibrosus within the intervertebral disc. Acta Biomaterialia, 2018, 68, 67-77.	4.1	42
32	New findings confirm the viscoelastic behaviour of the inter-lamellar matrix of the disc annulus fibrosus in radial and circumferential directions of loading. Acta Biomaterialia, 2018, 71, 411-419.	4.1	32
33	Novel Bacterial Cellulose-Poly (Acrylic Acid) Hybrid Hydrogels with Controllable Antimicrobial Ability as Dressings for Chronic Wounds. Polymers, 2018, 10, 1323.	2.0	35
34	The Biomechanics of the Inter-Lamellar Matrix and the Lamellae During Progression to Lumbar Disc Herniation: Which is the Weakest Structure?. Annals of Biomedical Engineering, 2018, 46, 1280-1291.	1.3	24
35	A method for visualization and isolation of elastic fibres in annulus fibrosus of the disc. Materials Science and Engineering C, 2018, 93, 299-304.	3.8	29
36	Cost-Effective Double-Layer Hydrogel Composites for Wound Dressing Applications. Polymers, 2018, 10, 305.	2.0	39

Javad Tavakoli

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37	Novel Bacterial Cellulose/Gelatin Hydrogels as 3D Scaffolds for Tumor Cell Culture. Polymers, 2018, 10, 581.	2.0	43
38	New insights into the viscoelastic and failure mechanical properties of the elastic fiber network of the inter-lamellar matrix in the annulus fibrosus of the disc. Acta Biomaterialia, 2018, 77, 292-300.	4.1	21
39	Region–media coupling in characterization and modelling of the disc annulus single lamella swelling. Medical and Biological Engineering and Computing, 2017, 55, 1483-1492.	1.6	2
40	<i>In situ</i> formed internal water channels improving water swelling and mechanical properties of water swellable rubber composites. Journal of Applied Polymer Science, 2017, 134, .	1.3	16
41	The ultra-structural organization of the elastic network in the intra- and inter-lamellar matrix of the intervertebral disc. Acta Biomaterialia, 2017, 58, 269-277.	4.1	57
42	In situ polymerized hyperbranched polymer reinforced poly(acrylic acid) hydrogels. Materials Chemistry Frontiers, 2017, 1, 1995-2004.	3.2	33
43	Honey/PVA hybrid wound dressings with controlled release of antibiotics: Structural, physico-mechanical and in-vitro biomedical studies. Materials Science and Engineering C, 2017, 77, 318-325.	3.8	105
44	Tissue Engineering of the Intervertebral Disc's Annulus Fibrosus: A Scaffold-Based Review Study. Tissue Engineering and Regenerative Medicine, 2017, 14, 81-91.	1.6	22
45	Development of a rapid matrix digestion technique for ultrastructural analysis of elastic fibers in the intervertebral disc. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 71, 175-183.	1.5	15
46	Physico-mechanical, morphological and biomedical properties of a novel natural wound dressing material. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 65, 373-382.	1.5	32
47	Hydrogel Based Sensors for Biomedical Applications: An Updated Review. Polymers, 2017, 9, 364.	2.0	286
48	Structure and mechanical function of the interâ€lamellar matrix of the annulus fibrosus in the disc. Journal of Orthopaedic Research, 2016, 34, 1307-1315.	1.2	60
49	Enhancing water swelling ability and mechanical properties of waterâ€swellable rubber by PAA/SBS nanofiber mats. Journal of Applied Polymer Science, 2016, 133, .	1.3	4
50	Characterization and evaluation of acacia gum loaded PVA hybrid wound dressing. , 2013, , .		7
51	Evaluation of effectiveness of herbal medication in cancer care: a review study. Iranian Journal of Cancer Prevention, 2012, 5, 144-56.	0.7	25
52	Evaluation of water conservation system for sterilizer cooling mechanism: A preventive maintenance study. , 2008, , .		0
53	Risk management in integrated biomedical engineering preventive maintenance information network. , 2008, , .		0
54	Effect of Nd:Yttrium-aluminum-garnet laser radiation on Ti6Al4V alloy properties for biomedical applications. Journal of Laser Applications, 2008, 20, 209-217.	0.8	12

JAVAD TAVAKOLI

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55	Analysis of Bioadhesivity of Osteoblast Cells on Titanium Alloy Surface Modified by Nd:YAG Laser. Journal of Adhesion, 2007, 83, 151-172.	1.8	5
56	Evaluation of drug release from PLGA nanospheres containing bethametasone. Proceedings of SPIE, 2007, , .	0.8	0
57	Swelling characteristics of acrylic acid polyelectrolyte hydrogel in a dc electric field. Smart Materials and Structures, 2007, 16, 1614-1620.	1.8	41
58	Characterization of Ti6Al4V implant surface treated by Nd:YAG laser and emery paper for orthopaedic applications. Applied Surface Science, 2007, 253, 8772-8781.	3.1	39
59	Evaluation of drug release from PLGA nanospheres containing bethametasone. , 2007, , .		1
60	ALTEN: A Highâ€Fidelity Primary Tissueâ€Engineering Platform to Assess Cellular Responses Ex Vivo. Advanced Science, 0, , 2103332.	5.6	3