

# Fahmi Bedoui

## List of Publications by Year in descending order

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17  
papers

341  
citations

1040056

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940533

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docs citations

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times ranked

638  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiscale-Engineered Muscle Constructs: PEG Hydrogel Micro-Patterning on an Electrospun PCL Mat Functionalized with Gold Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2022, 23, 260.	4.1	7
2	Coaxial electrospinning process toward optimal nanoparticle dispersion in polymeric matrix. <i>Polymer Composites</i> , 2021, 42, 1565-1573.	4.6	8
3	Monitoring mechanical stimulation for optimal tendon tissue engineering: A mechanical and biological multiscale study. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 1881-1892.	4.0	5
4	Focus on the deformation mechanism at the interfacial layer in nano-reinforced polymers: A molecular dynamics study of silica - poly(methyl methacrylate) nano-composite. <i>Mechanics of Materials</i> , 2021, 159, 103903.	3.2	3
5	Interfacial Interactions in a Model Composite Material: Insights into $\pm \hat{\alpha}^2$ Phase Transition of the Magnetite Reinforced Poly(Vinylidene Fluoride) Systems by All-Atom Molecular Dynamics Simulation. <i>Journal of Physical Chemistry C</i> , 2021, 125, 21635-21644.	3.1	11
6	Multiscale analysis of nanoparticles size effects on thermal, elastic, and viscoelastic properties of nano-reinforced polymers. <i>Polymer Engineering and Science</i> , 2020, 60, 1773-1784.	3.1	5
7	The combination of a poly-caprolactone/nano-hydroxyapatite honeycomb scaffold and mesenchymal stem cells promotes bone regeneration in rat calvarial defects. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020, 14, 1570-1580.	2.7	27
8	Electrospinning of biomedically relevant multi-region scaffolds: From honeycomb to randomly-oriented microstructure. <i>Polymer</i> , 2020, 202, 122606.	3.8	7
9	In Vitro Bone Cell Response to Tensile Mechanical Solicitations: Is There an Optimal Protocol?. <i>Biotechnology Journal</i> , 2019, 14, e1800358.	3.5	0
10	Compatibility effects of modified montmorillonite on elastic and visco-elastic properties of nano-reinforced Poly(lactic acid): Experimental and modeling study. <i>Polymer Testing</i> , 2018, 70, 441-448.	4.8	5
11	Biomaterials in Tendon and Skeletal Muscle Tissue Engineering: Current Trends and Challenges. <i>Materials</i> , 2018, 11, 1116.	2.9	103
12	Poly( $\mu$ -caprolactone)/Hydroxyapatite 3D Honeycomb Scaffolds for a Cellular Microenvironment Adapted to Maxillofacial Bone Reconstruction. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 3317-3326.	5.2	44
13	The Osteogenic and Tenogenic Differentiation Potential of C3H10T1/2 (Mesenchymal Stem Cell Model) Cultured on PCL/PLA Electrospun Scaffolds in the Absence of Specific Differentiation Medium. <i>Materials</i> , 2017, 10, 1387.	2.9	27
14	Experimental evidence of size effect in nano-reinforced polymers: Case of silica reinforced PMMA. <i>Polymer Testing</i> , 2016, 56, 337-343.	4.8	37
15	Mechanical investigation of confined amorphous phase in semicrystalline polymers: Case of PET and PLA. <i>Polymer Engineering and Science</i> , 2015, 55, 397-405.	3.1	32
16	Elastic properties prediction of nano-clay reinforced polymers using hybrid micromechanical models. <i>Computational Materials Science</i> , 2012, 65, 309-314.	3.0	9
17	Linear viscoelastic behavior of poly(ethylene terephthalate) above Tg amorphous viscoelastic properties Vs crystallinity: Experimental and micromechanical modeling. <i>Polymer</i> , 2010, 51, 5229-5235.	3.8	11