# Adnan Memic

List of Publications by Year
in descending order



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|---|---|---|---|
| 94 papers | 9,437 citations | 81900 39 h-index | 42399 92 g-index |
| 102 all docs | 102 docs citations | 102 times ranked | 14978 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Antimicrobial activity of metal oxide nanoparticles against Gram-positive and Gram-negative bacteria: a comparative study. International Journal of Nanomedicine, 2012, 7, 6003. | 6.7 | 1,030 |
| 2 | Size-dependent antimicrobial properties of CuO nanoparticles against Gram-positive and -negative bacterial strains. International Journal of Nanomedicine, 2012, 7, 3527. | 6.7 | 629 |
| 3 | Electrospun scaffolds for tissue engineering of vascular grafts. Acta Biomaterialia, 2014, 10, 11-25. | 8.3 | 611 |
| 4 | Drug delivery systems and materials for wound healing applications. Advanced Drug Delivery Reviews, 2018, 127, 138-166. | 13.7 | 512 |
| 5 | Self-assembled peptide-based nanostructures: Smart nanomaterials toward targeted drug delivery. Nano Today, 2016, 11, 41-60. | 11.9 | 472 |
| 6 | The role of metabolism in the pathogenesis of osteoarthritis. Nature Reviews Rheumatology, 2017, 13, 302-311. | 8.0 | 438 |
| 7 | Mesenchymal stem cells in regenerative medicine: Focus on articular cartilage and intervertebral disc regeneration. Methods, 2016, 99, 69-80. | 3.8 | 366 |
| 8 | Carbon Nanotubes in Biomedical Applications: Factors, Mechanisms, and Remedies of Toxicity. Journal of Medicinal Chemistry, 2016, 59, 8149-8167. | 6.4 | 306 |
| 9 | Nanoparticles in tissue engineering: applications, challenges and prospects. International Journal of Nanomedicine, 2018, Volume 13, 5637-5655. | 6.7 | 287 |
| 10 | Magnetic Nanoparticles in Cancer Therapy and Diagnosis. Advanced Healthcare Materials, 2020, 9, e1901058. | 7.6 | 261 |
| 11 | Latest Progress in Electrospun Nanofibers for Wound Healing Applications. ACS Applied Bio Materials, 2019, 2, 952-969. | 4.6 | 258 |
| 12 | Microfluidic techniques for development of 3D vascularized tissue. Biomaterials, 2014, 35, 7308-7325. | 11.4 | 254 |
| 13 | Osteoarthritis in the XXIst Century: Risk Factors and Behaviours that Influence Disease Onset and Progression. International Journal of Molecular Sciences, 2015, 16, 6093-6112. | 4.1 | 254 |
| 14 | Chondrocyte and mesenchymal stem cell-based therapies for cartilage repair in osteoarthritis and related orthopaedic conditions. Maturitas, 2014, 78, 188-198. | 2.4 | 225 |
| 15 | A Highly Elastic and Rapidly Crosslinkable Elastinâ€Like Polypeptideâ€Based Hydrogel for Biomedical Applications. Advanced Functional Materials, 2015, 25, 4814-4826. | 14.9 | 201 |
| 16 | High-energy ball milling technique for ZnO nanoparticles as antibacterial material. International Journal of Nanomedicine, 2011, 6, 863. | 6.7 | 191 |
| 17 | Mesenchymal stem cells: Identification, phenotypic characterization, biological properties and potential for regenerative medicine through biomaterial micro-engineering of their niche. Methods, 2016, 99, 62-68. | 3.8 | 189 |
| 18 | Mesenchymal stem cells in regenerative medicine: Opportunities and challenges for articular cartilage and intervertebral disc tissue engineering. Journal of Cellular Physiology, 2010, 222, 23-32. | 4.1 | 188 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Latest Advances in Cryogel Technology for Biomedical Applications. Advanced Therapeutics, 2019, 2, 1800114. | 3.2 | 187 |
| 20 | Nanoengineered biomimetic hydrogels for guiding human stem cell osteogenesis in three dimensional microenvironments. Journal of Materials Chemistry B, 2016, 4, 3544-3554. | 5.8 | 149 |
| 21 | Aligned Carbon Nanotubeâ€“Based Flexible Gel Substrates for Engineering Biohybrid Tissue Actuators. Advanced Functional Materials, 2015, 25, 4486-4495. | 14.9 | 146 |
| 22 | Injectable Cryogels for Biomedical Applications. Trends in Biotechnology, 2020, 38, 418-431. | 9.3 | 135 |
| 23 | Myotube formation on gelatin nanofibers â€“ Multi-walled carbon nanotubes hybrid scaffolds. Biomaterials, 2014, 35, 6268-6277. | 11.4 | 109 |
| 24 | A multilayered microfluidic blood vessel-like structure. Biomedical Microdevices, 2015, 17, 88. | 2.8 | 109 |
| 25 | Biodegradable elastic nanofibrous platforms with integrated flexible heaters for on-demand drug delivery. Scientific Reports, 2017, 7, 9220. | 3.3 | 90 |
| 26 | Hydrogels 2.0: improved properties with nanomaterial composites for biomedical applications. Biomedical Materials (Bristol), 2016, 11, 014104. | 3.3 | 82 |
| 27 | Injectable Hyaluronic Acid-co-Gelatin Cryogels for Tissue-Engineering Applications. Materials, 2018, 11, 1374. | 2.9 | 79 |
| 28 | Electroconductive biomaterials for cardiac tissue engineering. Acta Biomaterialia, 2022, 139, 118-140. | 8.3 | 61 |
| 29 | Regulation of chondrogenesis by protein kinase C: Emerging new roles in calcium signalling. Cellular Signalling, 2014, 26, 979-1000. | 3.6 | 59 |
| 30 | Paper microchip with a graphene-modified silver nano-composite electrode for electrical sensing of microbial pathogens. Nanoscale, 2017, 9, 1852-1861. | 5.6 | 58 |
| 31 | Electrospun cellulose Nano fibril reinforced PLA/PBS composite scaffold for vascular tissue engineering. Journal of Polymer Research, 2019, 26, 1. | 2.4 | 54 |
| 32 | Bioprinting technologies for disease modeling. Biotechnology Letters, 2017, 39, 1279-1290. | 2.2 | 53 |
| 33 | Nanoâ€Enabled Approaches for Stem Cellâ€Based Cardiac Tissue Engineering. Advanced Healthcare Materials, 2016, 5, 1533-1553. | 7.6 | 50 |
| 34 | Processâ€“Structureâ€“Quality Relationships of Three-Dimensional Printed Poly(Caprolactone)-Hydroxyapatite Scaffolds. Tissue Engineering - Part A, 2020, 26, 279-291. | 3.1 | 50 |
| 35 | Ni Doped CuO Nanoparticles: Structural and Optical Characterizations. Current Nanoscience, 2015, 11, 191-197. | 1.2 | 48 |
| 36 | Injectable Lignin-co-Gelatin Cryogels with Antioxidant and Antibacterial Properties for Biomedical Applications. Biomacromolecules, 2021, 22, 4110-4121. | 5.4 | 47 |

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|---|---|---|---|
| 37 | Advances inCandidadetection platforms for clinical and point-of-care applications. Critical Reviews in Biotechnology, 2017, 37, 441-458. | 9.0 | 46 |
| 38 | A Comprehensive Review of Stem Cells for Cartilage Regeneration in Osteoarthritis. Advances in Experimental Medicine and Biology, 2018, 1089, 23-36. | 1.6 | 45 |
| 39 | Oxygen-Releasing Antibacterial Nanofibrous Scaffolds for Tissue Engineering Applications. Polymers, 2020, 12, 1233. | 4.5 | 45 |
| 40 | Size controlled, antimicrobial ZnO nanostructures produced by the microwave assisted route. Materials Science and Engineering C, 2019, 99, 1164-1173. | 7.3 | 41 |
| 41 | In situ printing of scaffolds for reconstruction of bone defects. Acta Biomaterialia, 2021, 127, 313-326. | 8.3 | 41 |
| 42 | Targeting GIPC/Synectin in Pancreatic Cancer Inhibits Tumor Growth. Clinical Cancer Research, 2009, 15, 4095-4103. | 7.0 | 40 |
| 43 | Supramolecular Self-Assembled Peptide-Based Vaccines: Current State and Future Perspectives. Frontiers in Chemistry, 2020, 8, 598160. | 3.6 | 40 |
| 44 | Hybrid Paperâ€“Plastic Microchip for Flexible and Highâ€Performance Pointâ€ofâ€Care Diagnostics. Advanced Functional Materials, 2018, 28, 1707161. | 14.9 | 39 |
| 45 | Autoclavable and Injectable Cryogels for Biomedical Applications. Advanced Healthcare Materials, 2019, 8, e1900679. | 7.6 | 39 |
| 46 | Formation of Carbon Nanotubes from Carbon-Rich Fly Ash: Growth Parameters and Mechanism. Materials and Manufacturing Processes, 2016, 31, 146-156. | 4.7 | 38 |
| 47 | Fabrication and characterization of poly (aniline-co-o-anthranilic acid)/magnetite nanocomposites and their application in wastewater treatment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 520, 121-130. | 4.7 | 37 |
| 48 | Sustainable drug release from polycaprolactone coated chitin-lignin gel fibrous scaffolds. Scientific Reports, 2020, 10, 20428. | 3.3 | 37 |
| 49 | 3Dâ€Printed Hydrogelâ€Filled Microneedle Arrays. Advanced Healthcare Materials, 2021, 10, e2001922. | 7.6 | 32 |
| 50 | In situ bioprinting: intraoperative implementation of regenerative medicine. Trends in Biotechnology, 2022, 40, 1229-1247. | 9.3 | 30 |
| 51 | Microfibrous silver-coated polymeric scaffolds with tunable mechanical properties. RSC Advances, 2017, 7, 34331-34338. | 3.6 | 29 |
| 52 | Nanocomposites of CuO/SWCNT: Promising thermoelectric materials for mid-temperature thermoelectric generators. Journal of the European Ceramic Society, 2019, 39, 3307-3314. | 5.7 | 27 |
| 53 | How Do Halogen Substituents Contribute to Proteinâ€Binding Interactions? A Thermodynamic Study of Peptide Ligands with Diverse Aryl Halides. ChemBioChem, 2008, 9, 2793-2795. | 2.6 | 26 |
| 54 | T7 phage display as a method of peptide ligand discovery for PDZ domain proteins. Biopolymers, 2009, 92, 183-193. | 2.4 | 26 |

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|---|---|---|---|
| 55 | Pathogenesis of Thromboembolism and Endovascular Management. Thrombosis, 2017, 2017, 1-13. | 1.4 | 26 |
| 56 | 3D Printing of Metal/Metal Oxide Incorporated Thermoplastic Nanocomposites With Antimicrobial Properties. Frontiers in Bioengineering and Biotechnology, 2020, 8, 568186. | 4.1 | 26 |
| 57 | Nanofibrous Silver-Coated Polymeric Scaffolds with Tunable Electrical Properties. Nanomaterials, 2017, 7, 63. | 4.1 | 23 |
| 58 | The Effect of Poly (Glycerol Sebacate) Incorporation within Hybrid Chitinâ€“Lignin Solâ€“Gel Nanofibrous Scaffolds. Materials, 2018, 11, 451. | 2.9 | 23 |
| 59 | Effect of Polymer Concentration on Autoclaved Cryogel Properties. Macromolecular Materials and Engineering, 2020, 305, 1900824. | 3.6 | 23 |
| 60 | Non-viral Gene Therapy for Osteoarthritis. Frontiers in Bioengineering and Biotechnology, 2020, 8, 618399. | 4.1 | 23 |
| 61 | Rapid fabrication of highly porous and biocompatible composite textile tubular scaffold for vascular tissue engineering. European Polymer Journal, 2017, 96, 27-43. | 5.4 | 22 |
| 62 | Graphene and Graphene-Based Materials in Biomedical Applications. Current Medicinal Chemistry, 2019, 26, 6834-6850. | 2.4 | 22 |
| 63 | The Potency of Induced Pluripotent Stem Cells in Cartilage Regeneration and Osteoarthritis Treatment. Advances in Experimental Medicine and Biology, 2017, 1079, 55-68. | 1.6 | 21 |
| 64 | Needle-injectable microcomposite cryogel scaffolds with antimicrobial properties. Scientific Reports, 2020, 10, 18370. | 3.3 | 21 |
| 65 | Carbon rich fly ash and their nanostructures. Carbon Letters, 2016, 19, 23-31. | 5.9 | 20 |
| 66 | Ser/Thr-phosphoprotein phosphatases in chondrogenesis: neglected components of a two-player game. Cellular Signalling, 2014, 26, 2175-2185. | 3.6 | 19 |
| 67 | Polymeric Biomaterials for Implantable Prostheses. , 2014, , 309-331. | | 17 |
| 68 | Oxygenâ€Generating Cryogels Restore T Cell Mediated Cytotoxicity in Hypoxic Tumors. Advanced Functional Materials, 2021, 31, 2102234. | 14.9 | 17 |
| 69 | Study of Electrospinning Parameters and Collection Methods on Size Distribution and Orientation of PLA/PBS Hybrid Fiber Using Digital Image Processing. Journal of Nanoscience and Nanotechnology, 2018, 18, 8240-8251. | 0.9 | 16 |
| 70 | Label-free electrical sensing of bacteria in eye wash samples: A step towards point-of-care detection of pathogens in patients with infectious keratitis. Biosensors and Bioelectronics, 2017, 91, 32-39. | 10.1 | 15 |
| 71 | Encapsulation of 5-Flurouracil into PLGA Nanofibers and Enhanced Anticancer Effect in Combination with Ajwa-Dates-Extract (Phoenix dactylifera L.). Journal of Biomedical Nanotechnology, 2018, 14, 553-563. | 1.1 | 15 |
| 72 | Size controlled ultrafine CeO2 nanoparticles produced by the microwave assisted route and their antimicrobial activity. Journal of Materials Science: Materials in Medicine, 2017, 28, 177. | 3.6 | 14 |

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| 73 | Tunable fabrication of rice-like nanostructures aggregated into flowers of Alq3 with negligible photo-degradation for potential biomedical applications. Materials Chemistry and Physics, 2021, 259, 124080. | 4.0 | 14 |
| 74 | Development of Nanocoated Filaments for 3D Fused Deposition Modeling of Antibacterial and Antioxidant Materials. Polymers, 2022, 14, 2645. | 4.5 | 13 |
| 75 | (Bio)manufactured Solutions for Treatment of Bone Defects with an Emphasis on USâ€FDA Regulatory Science Perspective. Advanced NanoBiomed Research, 2022, 2, . | 3.6 | 12 |
| 76 | Syntheses and characterization of thin films of Te94Se6 nanoparticles for semiconducting and optical devices. Thin Solid Films, 2013, 531, 70-75. | 1.8 | 11 |
| 77 | Future Cell and Gene Therapy for Osteoarthritis (OA): Potential for Using Mammalian Protein Production Platforms, Irradiated and Transfected Protein Packaging Cell Lines for Over-Production of Therapeutic Proteins and Growth Factors. Advances in Experimental Medicine and Biology, 2019, 1247, 17-31. | 1.6 | 10 |
| 78 | The First Observation of Memory Effects in the InfraRed (FT-IR) Measurements: Do Successive Measurements Remember Each Other?. PLoS ONE, 2014, 9, e94305. | 2.5 | 9 |
| 79 | Size-controlled, single-crystal CuO nanosheets and the resulting polyethyleneâ€“carbon nanotube nanocomposite as antimicrobial materials. Polymer Bulletin, 2021, 78, 261-281. | 3.3 | 9 |
| 80 | Cell and Gene Therapy for Spine Regeneration. Neurosurgery Clinics of North America, 2020, 31, 131-139. | 1.7 | 8 |
| 81 | Reevolution of Tissue Regeneration: From Recent Advances in Adipose Stem Cells to Novel Therapeutic Approaches. Stem Cells International, 2021, 2021, 1-3. | 2.5 | 5 |
| 82 | Investigation of the tris(8-hydroxyquinoline) aluminum as a promising fluorescent optical material for in vitro bioimaging. Optical Materials, 2022, 127, 112260. | 3.6 | 5 |
| 83 | Raman Spectra of Nanodiamonds: New Treatment Procedure Directed for Improved Raman Signal Marker Detection. Mathematical Problems in Engineering, 2013, 2013, 1-11. | 1.1 | 4 |
| 84 | Finding the winning combination. Organogenesis, 2014, 10, 299-302. | 1.2 | 4 |
| 85 | Mesenchymal Stem Cells and their Potential for Microengineering the Chondrocyte Niche. EBioMedicine, 2015, 2, 1560-1561. | 6.1 | 4 |
| 86 | Over-Production of Therapeutic Growth Factors for Articular Cartilage Regeneration by Protein Production Platforms and Protein Packaging Cell Lines. Biology, 2020, 9, 330. | 2.8 | 4 |
| 87 | Apparent structural differences at the tetramerization region of erythroid and nonerythroid beta spectrin as discriminated by phage displayed scFvs. Protein Science, 2011, 20, 867-879. | 7.6 | 3 |
| 88 | Application of Wavelet Transform for PDZ Domain Classification. PLoS ONE, 2015, 10, e0122873. | 2.5 | 3 |
| 89 | MicroRNAs and Regulation of Autophagy in Chondrocytes. Methods in Molecular Biology, 2021, 2245, 179-194. | 0.9 | 3 |
| 90 | Generation of recombinant guinea pig antibody fragments to the human GABAC receptor. Journal of Immunological Methods, 2011, 368, 36-44. | 1.4 | 2 |

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|---|---|---|---|
| 91 | Subunit-specific polyclonal antibody targeting human ï¬ GABAC receptor. Experimental Eye Research, 2011, 93, 59-64. | 2.6 | 1 |
| 92 | On Classification of PDZ Domains: A Computational Study. Mathematical Problems in Engineering, 2013, 2013, 1-9. | 1.1 | 0 |
| 93 | Modeling carbon nanomaterial cell internalization for drug carrier applications. , 2014, , . | | 0 |
| 94 | Neuroscience and Neuroimmunology Solutions for Osteoarthritis Pain: Biological Drugs, Growth Factors, Peptides and Monoclonal Antibodies Targeting Peripheral Nerves. NeuroSci, 2021, 2, 45-58. | 1.2 | 0 |