

Tunku Kamarul Zaman Tunku Zainol Abidin

List of Publications by Year in descending order

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Version: 2024-02-01

175
papers

4,688
citations

101543

36
h-index

149698

56
g-index

182
all docs

182
docs citations

182
times ranked

7708
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Potential of apoptotic pathway-targeted cancer therapeutic research: Where do we stand?. <i>Cell Death and Disease</i> , 2016, 7, e2058-e2058. | 6.3 | 238 |
| 2 | Human peripheral blood derived mesenchymal stem cells demonstrate similar characteristics and chondrogenic differentiation potential to bone marrow derived mesenchymal stem cells. <i>Journal of Orthopaedic Research</i> , 2012, 30, 634-642. | 2.3 | 125 |
| 3 | Gallium-containing mesoporous bioactive glass with potent hemostatic activity and antibacterial efficacy. <i>Journal of Materials Chemistry B</i> , 2016, 4, 71-86. | 5.8 | 121 |
| 4 | Finite element analysis of Puddu and Tomofix plate fixation for open wedge high tibial osteotomy. <i>Injury</i> , 2012, 43, 898-902. | 1.7 | 109 |
| 5 | Hand Grip Strength in the Adult Malaysian Population. <i>Journal of Orthopaedic Surgery</i> , 2006, 14, 172-177. | 1.0 | 103 |
| 6 | Potency and Cytotoxicity of a Novel Gallium-Containing Mesoporous Bioactive Glass/Chitosan Composite Scaffold as Hemostatic Agents. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31381-31392. | 8.0 | 95 |
| 7 | Preparation Methods for Improving PEEK's Bioactivity for Orthopedic and Dental Application: A Review. <i>International Journal of Biomaterials</i> , 2016, 2016, 1-12. | 2.4 | 92 |
| 8 | A preliminary study comparing the use of allogenic chondrogenic pre-differentiated and undifferentiated mesenchymal stem cells for the repair of full thickness articular cartilage defects in rabbits. <i>Journal of Orthopaedic Research</i> , 2011, 29, 1336-1342. | 2.3 | 89 |
| 9 | Characterization, antibacterial and in vitro compatibility of zinc-silver doped hydroxyapatite nanoparticles prepared through microwave synthesis. <i>Ceramics International</i> , 2014, 40, 4507-4513. | 4.8 | 84 |
| 10 | Treatment Outcomes of Alginate-Embedded Allogenic Mesenchymal Stem Cells Versus Autologous Chondrocytes for the Repair of Focal Articular Cartilage Defects in a Rabbit Model. <i>American Journal of Sports Medicine</i> , 2012, 40, 83-90. | 4.2 | 83 |
| 11 | Unconfined compression properties of a porous poly(vinyl alcohol)-chitosan-based hydrogel after hydration. <i>Acta Biomaterialia</i> , 2009, 5, 1919-1925. | 8.3 | 81 |
| 12 | Isolation, characterization and the multilineage differentiation potential of rabbit bone marrow-derived mesenchymal stem cells. <i>Journal of Anatomy</i> , 2013, 222, 437-450. | 1.5 | 79 |
| 13 | Platelet-rich plasma (PRP) enhances bone healing in non-united critical-sized defects: A preliminary study involving rabbit models. <i>Injury</i> , 2011, 42, 782-789. | 1.7 | 74 |
| 14 | Rapid microwave assisted synthesis and characterization of nanosized silver-doped hydroxyapatite with antibacterial properties. <i>Materials Letters</i> , 2012, 89, 118-122. | 2.6 | 73 |
| 15 | Effect of Growth Differentiation Factor 5 on the Proliferation and Tenogenic Differentiation Potential of Human Mesenchymal Stem Cells in vitro. <i>Cells Tissues Organs</i> , 2012, 196, 325-338. | 2.3 | 73 |
| 16 | Oxidative Stress-Induced Premature Senescence in Wharton's Jelly-Derived Mesenchymal Stem Cells. <i>International Journal of Medical Sciences</i> , 2014, 11, 1201-1207. | 2.5 | 71 |
| 17 | Enhancement of mesenchymal stem cell chondrogenesis with short-term low intensity pulsed electromagnetic fields. <i>Scientific Reports</i> , 2017, 7, 9421. | 3.3 | 70 |
| 18 | Protective Effect of Ginger (<i>Zingiber officinale</i> Roscoe) Extract against Oxidative Stress and Mitochondrial Apoptosis Induced by Interleukin-1 β in Cultured Chondrocytes. <i>Cells Tissues Organs</i> , 2017, 204, 241-250. | 2.3 | 63 |

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|----|---|------|-----------|
| 19 | The Combined Effect of Substrate Stiffness and Surface Topography on Chondrogenic Differentiation of Mesenchymal Stem Cells. <i>Tissue Engineering - Part A</i> , 2017, 23, 43-54. | 3.1 | 62 |
| 20 | The effects of staged intra-articular injection of cultured autologous mesenchymal stromal cells on the repair of damaged cartilage: a pilot study in caprine model. <i>Arthritis Research and Therapy</i> , 2013, 15, R129. | 3.5 | 61 |
| 21 | Chitosan (PEO)/bioactive glass hybrid nanofibers for bone tissue engineering. <i>RSC Advances</i> , 2014, 4, 49144-49152. | 3.6 | 59 |
| 22 | Fabrication and in vitro biological activity of β -TCP-Chitosan-Fucoidan composite for bone tissue engineering. <i>Carbohydrate Polymers</i> , 2015, 134, 799-807. | 10.2 | 59 |
| 23 | Exclusive breastfeeding practice during first six months of an infant's life in Bangladesh: a country based cross-sectional study. <i>BMC Pediatrics</i> , 2018, 18, 93. | 1.7 | 59 |
| 24 | Deferoxamine preconditioning to restore impaired $\text{HIF-1}\alpha$ -mediated angiogenic mechanisms in adipose-derived stem cells from STZ-induced type 1 diabetic rats. <i>Cell Proliferation</i> , 2015, 48, 532-549. | 5.3 | 57 |
| 25 | Incorporation of Fucoidan in β -Tricalcium phosphate-Chitosan scaffold prompts the differentiation of human bone marrow stromal cells into osteogenic lineage. <i>Scientific Reports</i> , 2016, 6, 24202. | 3.3 | 50 |
| 26 | A Comparative Study on In Vitro Osteogenic Priming Potential of Electron Spun Scaffold PLLA/HA/Col, PLLA/HA, and PLLA/Col for Tissue Engineering Application. <i>PLoS ONE</i> , 2014, 9, e104389. | 2.5 | 47 |
| 27 | Characterization and antibacterial properties of stable silver substituted hydroxyapatite nanoparticles synthesized through surfactant assisted microwave process. <i>Materials Research Bulletin</i> , 2013, 48, 3172-3177. | 5.2 | 45 |
| 28 | In-vitro bioactivity, biocompatibility and dissolution studies of diopside prepared from biowaste by using sol-gel combustion method. <i>Materials Science and Engineering C</i> , 2016, 68, 89-100. | 7.3 | 45 |
| 29 | The use of X-shaped crosslink in posterior spinal constructs improves stability in thoracolumbar burst fracture: A finite element analysis. <i>Journal of Orthopaedic Research</i> , 2013, 31, 1447-1454. | 2.3 | 41 |
| 30 | Histology, Glycosaminoglycan Level and Cartilage Stiffness in Monoiodoacetate-Induced Osteoarthritis: Comparative Analysis with Anterior Cruciate Ligament Transection in Rat Model and Human Osteoarthritis. <i>International Journal of Medical Sciences</i> , 2014, 11, 97-105. | 2.5 | 41 |
| 31 | Chronic hepatitis C virus infection triggers spontaneous differential expression of biosignatures associated with T cell exhaustion and apoptosis signaling in peripheral blood mononucleocytes. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2015, 20, 466-480. | 4.9 | 41 |
| 32 | Three dimensional alginate-fucoidan composite hydrogel augments the chondrogenic differentiation of mesenchymal stromal cells. <i>Carbohydrate Polymers</i> , 2016, 147, 294-303. | 10.2 | 41 |
| 33 | Mechanical and functional assessment of the wrist affected by rheumatoid arthritis: A finite element analysis. <i>Medical Engineering and Physics</i> , 2012, 34, 1294-1302. | 1.7 | 40 |
| 34 | Multiple regression analysis of factors influencing dominant hand grip strength in an adult Malaysian population. <i>Journal of Hand Surgery: European Volume</i> , 2012, 37, 65-70. | 1.0 | 40 |
| 35 | Finite element analysis of three commonly used external fixation devices for treating Type III pilon fractures. <i>Medical Engineering and Physics</i> , 2014, 36, 1322-1330. | 1.7 | 40 |
| 36 | Chondrocyte-alginate constructs with or without TGF- β 1 produces superior extracellular matrix expression than monolayer cultures. <i>Molecular and Cellular Biochemistry</i> , 2013, 376, 11-20. | 3.1 | 38 |

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|----|---|-----|-----------|
| 37 | Characterization of bovine-derived porous hydroxyapatite scaffold and its potential to support osteogenic differentiation of human bone marrow derived mesenchymal stem cells. <i>Ceramics International</i> , 2014, 40, 771-777. | 4.8 | 38 |
| 38 | The prevention and treatment of hypoadiponectinemia-associated human diseases by up-regulation of plasma adiponectin. <i>Life Sciences</i> , 2015, 135, 55-67. | 4.3 | 38 |
| 39 | Synergistic interaction of platelet derived growth factor (PDGF) with the surface of PLLA/Col/HA and PLLA/HA scaffolds produces rapid osteogenic differentiation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 139, 68-78. | 5.0 | 38 |
| 40 | Elevated plasma and synovial fluid interleukin-8 and interleukin-18 may be associated with the pathogenesis of knee osteoarthritis. <i>Knee</i> , 2020, 27, 26-35. | 1.6 | 38 |
| 41 | Microwave synthesis, characterization, bioactivity and in vitro biocompatibility of zeolite-hydroxyapatite (Zeo-HA) composite for bone tissue engineering applications. <i>Ceramics International</i> , 2014, 40, 16091-16097. | 4.8 | 37 |
| 42 | Expansion and preservation of multipotentiality of rabbit bone-marrow derived mesenchymal stem cells in dextran-based microcarrier spin culture. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 1343-1356. | 3.6 | 36 |
| 43 | Frequent Co-Expression of miRNA-5p and -3p Species and Cross-Targeting in Induced Pluripotent Stem Cells. <i>International Journal of Medical Sciences</i> , 2014, 11, 824-833. | 2.5 | 36 |
| 44 | Assessment of knowledge regarding tuberculosis among non-medical university students in Bangladesh: a cross-sectional study. <i>BMC Public Health</i> , 2015, 15, 716. | 2.9 | 36 |
| 45 | The proliferation and tenogenic differentiation potential of bone marrow-derived mesenchymal stromal cell are influenced by specific uniaxial cyclic tensile loading conditions. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015, 14, 649-663. | 2.8 | 36 |
| 46 | PVA-chitosan composite hydrogel versus alginate beads as a potential mesenchymal stem cell carrier for the treatment of focal cartilage defects. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2015, 23, 1368-1377. | 4.2 | 36 |
| 47 | Evaluating the Protective Effects and Mechanisms of Diallyl Disulfide on Interleukin-1 β -Induced Oxidative Stress and Mitochondrial Apoptotic Signaling Pathways in Cultured Chondrocytes. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 1879-1888. | 2.6 | 36 |
| 48 | Multiple regression analysis of anthropometric measurements influencing the cephalic index of male Japanese university students. <i>Singapore Medical Journal</i> , 2013, 54, 516-520. | 0.6 | 34 |
| 49 | BODY MASS INDEX OF MARRIED BANGLADESHI WOMEN: TRENDS AND ASSOCIATION WITH SOCIO-DEMOGRAPHIC FACTORS. <i>Journal of Biosocial Science</i> , 2012, 44, 385-399. | 1.2 | 33 |
| 50 | Probable impact of age and hypoxia on proliferation and microRNA expression profile of bone marrow-derived human mesenchymal stem cells. <i>PeerJ</i> , 2016, 4, e1536. | 2.0 | 33 |
| 51 | Characterization and biological evaluation of silver containing fluoroapatite nanoparticles prepared through microwave synthesis. <i>Ceramics International</i> , 2015, 41, 6470-6477. | 4.8 | 32 |
| 52 | Chondrocyte density, proteoglycan content and gene expressions from native cartilage are species specific and not dependent on cartilage thickness: a comparative analysis between rat, rabbit and goat. <i>BMC Veterinary Research</i> , 2013, 9, 62. | 1.9 | 31 |
| 53 | Anthropometric Measurements of the Human Distal Femur: A Study of the Adult Malay Population. <i>BioMed Research International</i> , 2013, 2013, 1-5. | 1.9 | 31 |
| 54 | Rice husk derived bioactive glass-ceramic as a functional bioceramic: Synthesis, characterization and biological testing. <i>Journal of Non-Crystalline Solids</i> , 2015, 427, 54-61. | 3.1 | 30 |

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|----|--|-----|-----------|
| 55 | Uniaxial Cyclic Tensile Stretching at 8% Strain Exclusively Promotes Tenogenic Differentiation of Human Bone Marrow-Derived Mesenchymal Stromal Cells. <i>Stem Cells International</i> , 2019, 2019, 1-16. | 2.5 | 30 |
| 56 | Human amnion as a novel cell delivery vehicle for chondrogenic mesenchymal stem cells. <i>Cell and Tissue Banking</i> , 2011, 12, 59-70. | 1.1 | 29 |
| 57 | COVID-19 in Singapore and Malaysia: Rising to the Challenges of Orthopaedic Practice in an Evolving Pandemic. <i>Malaysian Orthopaedic Journal</i> , 2020, 14, 7-15. | 0.5 | 29 |
| 58 | miR-524-5p of the primate-specific C19MC miRNA cluster targets TP53IPN1- and EMT-associated genes to regulate cellular reprogramming. <i>Stem Cell Research and Therapy</i> , 2017, 8, 214. | 5.5 | 28 |
| 59 | Identification of Pathways Mediating Growth Differentiation Factor5-Induced Tenogenic Differentiation in Human Bone Marrow Stromal Cells. <i>PLoS ONE</i> , 2015, 10, e0140869. | 2.5 | 28 |
| 60 | Biomechanical analysis of the wrist arthroplasty in rheumatoid arthritis: a finite element analysis. <i>Medical and Biological Engineering and Computing</i> , 2013, 51, 175-186. | 2.8 | 27 |
| 61 | Biomechanical evaluation of two commonly used external fixators in the treatment of open subtalar dislocation—A finite element analysis. <i>Medical Engineering and Physics</i> , 2014, 36, 1358-1366. | 1.7 | 27 |
| 62 | Deferoxamine Preconditioning of Neural-Like Cells Derived from Human Wharton's Jelly Mesenchymal Stem Cells as a Strategy to Promote Their Tolerance and Therapeutic Potential: An In Vitro Study. <i>Cellular and Molecular Neurobiology</i> , 2016, 36, 689-700. | 3.3 | 27 |
| 63 | Oxidative Stress Down-Regulates MiR-20b-5p, MiR-106a-5p and E2F1 Expression to Suppress the G1/S Transition of the Cell Cycle in Multipotent Stromal Cells. <i>International Journal of Medical Sciences</i> , 2020, 17, 457-470. | 2.5 | 27 |
| 64 | Biocompatibility and Toxicity of Poly(vinyl alcohol)/N,O-Carboxymethyl Chitosan Scaffold. <i>Scientific World Journal</i> , The, 2014, 2014, 1-7. | 2.1 | 26 |
| 65 | Mechanical, antibacterial, and biocompatibility mechanism of PVD grown silver-tantalum-oxide-based nanostructured thin film on stainless steel 316L for surgical applications. <i>Materials Science and Engineering C</i> , 2020, 107, 110304. | 7.3 | 26 |
| 66 | Advances of human bone marrow-derived mesenchymal stem cells in the treatment of cartilage defects: A systematic review. <i>Experimental Biology and Medicine</i> , 2014, 239, 663-669. | 2.4 | 25 |
| 67 | Incomplete cellular reprogramming of colorectal cancer cells elicits an epithelial/mesenchymal hybrid phenotype. <i>Journal of Biomedical Science</i> , 2018, 25, 57. | 7.0 | 24 |
| 68 | Biomaterialization, mechanical, antibacterial and biological investigation of larnite and rankinite bioceramics. <i>Materials Science and Engineering C</i> , 2021, 118, 111466. | 7.3 | 24 |
| 69 | AGE AT MENARCHE OF UNIVERSITY STUDENTS IN BANGLADESH: SECULAR TRENDS AND ASSOCIATION WITH ADULT ANTHROPOMETRIC MEASURES AND SOCIO-DEMOGRAPHIC FACTORS. <i>Journal of Biosocial Science</i> , 2010, 42, 677-687. | 1.2 | 23 |
| 70 | Human amniotic membrane as a chondrocyte carrier vehicle/substrate: <i>In vitro</i> study. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 99A, 500-506. | 4.0 | 23 |
| 71 | Effect of 17 β -estradiol on mediators involved in mesenchymal stromal cell trafficking in cell therapy of diabetes. <i>Cytotherapy</i> , 2015, 17, 46-57. | 0.7 | 23 |
| 72 | Unmodified medium chain length polyhydroxyalkanoate (uMCL-PHA) as a thin film for tissue engineering application — characterization and <i>in vitro</i> biocompatibility. <i>Materials Letters</i> , 2015, 141, 55-58. | 2.6 | 23 |

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|----|--|-----|-----------|
| 73 | Chondrogenic potential of physically treated bovine cartilage matrix derived porous scaffolds on human dermal fibroblast cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 245-256. | 4.0 | 23 |
| 74 | Effect of torsional loading on compressive fatigue behaviour of trabecular bone. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 54, 21-32. | 3.1 | 23 |
| 75 | Comparative efficacy of hemorrhage control of a novel mesoporous bioactive glass versus two commercial hemostats. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 025020. | 3.3 | 23 |
| 76 | A preliminary study of the effects of glucosamine sulphate and chondroitin sulphate on surgically treated and untreated focal cartilage damage. , 2011, 21, 259-271. | | 23 |
| 77 | The physicochemical and biomechanical profile of forsterite and its osteogenic potential of mesenchymal stromal cells. <i>PLoS ONE</i> , 2019, 14, e0214212. | 2.5 | 22 |
| 78 | The effect of TGF- β 1 and β 2-estradiol on glycosaminoglycan and type II collagen distribution in articular chondrocyte cultures. <i>Cell Biology International</i> , 2008, 32, 841-847. | 3.0 | 21 |
| 79 | Recombinant Human Adiponectin as a Potential Protein for Treating Diabetic Tendinopathy Promotes Tenocyte Progenitor Cells Proliferation and Tenogenic Differentiation <i>In Vitro</i> . <i>International Journal of Medical Sciences</i> , 2013, 10, 1899-1906. | 2.5 | 21 |
| 80 | Heterogeneity of Osteosarcoma Cell Lines Led to Variable Responses in Reprogramming. <i>International Journal of Medical Sciences</i> , 2014, 11, 1154-1160. | 2.5 | 20 |
| 81 | A comparison study of different physical treatments on cartilage matrix derived porous scaffolds for tissue engineering applications. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 065001. | 6.1 | 20 |
| 82 | Archimedes revisited: computer assisted micro-volumetric modification of the liquid displacement method for porosity measurement of highly porous light materials. <i>Analytical Methods</i> , 2014, 6, 4396-4401. | 2.7 | 20 |
| 83 | Protective effects of atorvastatin on high glucose-induced oxidative stress and mitochondrial apoptotic signaling pathways in cultured chondrocytes. <i>Journal of Physiology and Biochemistry</i> , 2019, 75, 153-162. | 3.0 | 20 |
| 84 | Novel HA-PVA/NOCC bilayered scaffold for osteochondral tissue-engineering applications – Fabrication, characterization, in vitro and in vivo biocompatibility study. <i>Materials Letters</i> , 2013, 113, 25-29. | 2.6 | 19 |
| 85 | A Comparative Study on Morphochemical Properties and Osteogenic Cell Differentiation within Bone Graft and Coral Graft Culture Systems. <i>International Journal of Medical Sciences</i> , 2013, 10, 1608-1614. | 2.5 | 19 |
| 86 | Proliferation and osteogenic differentiation of mesenchymal stromal cells in a novel porous hydroxyapatite scaffold. <i>Regenerative Medicine</i> , 2015, 10, 579-590. | 1.7 | 19 |
| 87 | Early Alterations of Subchondral Bone in the Rat Anterior Cruciate Ligament Transection Model of Osteoarthritis. <i>Cartilage</i> , 2021, 13, 1322S-1333S. | 2.7 | 19 |
| 88 | Physicochemical, antibacterial and biocompatibility assessments of silver incorporated nano-hydroxyapatite synthesized using a novel microwave-assisted wet precipitation technique. <i>Materials Characterization</i> , 2021, 178, 111169. | 4.4 | 19 |
| 89 | Supermacroporous poly(vinyl alcohol)-carboxymethyl chitosan-poly(ethylene glycol) scaffold: an in vitro and in vivo pre-assessments for cartilage tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 1561-1570. | 3.6 | 18 |
| 90 | Autologous Chondrocyte Transplantation in the Repair of Full-Thickness Focal Cartilage Damage in Rabbits. <i>Journal of Orthopaedic Surgery</i> , 2008, 16, 230-236. | 1.0 | 17 |

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| 91 | Cytotoxic evaluation of hydroxyapatite-filled and silica/hydroxyapatite-filled acrylate-based restorative composite resins: An in vitro study. <i>Journal of Prosthetic Dentistry</i> , 2016, 116, 129-135. | 2.8 | 17 |
| 92 | Restoring the IL-1 β /NF- κ B-induced impaired chondrogenesis by diallyl disulfide in human adipose-derived mesenchymal stem cells via attenuation of reactive oxygen species and elevation of antioxidant enzymes. <i>Cell and Tissue Research</i> , 2018, 373, 407-419. | 2.9 | 17 |
| 93 | Hyaluronic acid with or without bone marrow derived-mesenchymal stem cells improves osteoarthritic knee changes in rat model: a preliminary report. <i>Indian Journal of Experimental Biology</i> , 2012, 50, 383-90. | 0.0 | 17 |
| 94 | A biomechanical study comparing plate fixation using unicortical and bicortical screws in transverse metacarpal fracture models subjected to cyclic loading. <i>Journal of Hand Surgery: European Volume</i> , 2012, 37, 396-401. | 1.0 | 16 |
| 95 | Uniaxial and Multiaxial Fatigue Life Prediction of the Trabecular Bone Based on Physiological Loading: A Comparative Study. <i>Annals of Biomedical Engineering</i> , 2015, 43, 2487-2502. | 2.5 | 16 |
| 96 | The Effects of Physiological Biomechanical Loading on Intradiscal Pressure and Annulus Stress in Lumbar Spine: A Finite Element Analysis. <i>Journal of Healthcare Engineering</i> , 2017, 2017, 1-8. | 1.9 | 16 |
| 97 | Osteogenic differentiation of mesenchymal stem cells on a poly (octanediol citrate)/bioglass composite scaffold in vitro. <i>Materials and Design</i> , 2016, 109, 434-442. | 7.0 | 15 |
| 98 | The comparison between the different generations of autologous chondrocyte implantation with other treatment modalities: a systematic review of clinical trials. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2016, 24, 3912-3926. | 4.2 | 15 |
| 99 | Incorporation of Human-Platelet-Derived Growth Factor-BB Encapsulated Poly(lactic-co-glycolic acid) Microspheres into 3D CORAGRAF Enhances Osteogenic Differentiation of Mesenchymal Stromal Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9291-9303. | 8.0 | 15 |
| 100 | Gene Expression Analysis Reveals the Concurrent Activation of Proapoptotic and Antioxidant-Defensive Mechanisms in Flavokawain Bâ€“Treated Cervical Cancer HeLa Cells. <i>Integrative Cancer Therapies</i> , 2017, 16, 373-384. | 2.0 | 15 |
| 101 | Elastomeric biocomposite of silver-containing mesoporous bioactive glass and poly(1,8-octanediol) Tj ETQq1 1 0.784314 rgBT /Overlock Materials Science and Engineering C, 2019, 98, 1022-1033. | 7.3 | 15 |
| 102 | Comparison of In Vitro Developmental Competence of Cloned Caprine Embryos Using Donor Karyoplasts from Adult Bone Marrow Mesenchymal Stem Cells vs Ear Fibroblast Cells. <i>Reproduction in Domestic Animals</i> , 2014, 49, 249-253. | 1.4 | 14 |
| 103 | The effect of strontium ranelate on the healing of a fractured ulna with bone gap in rabbit. <i>BMC Veterinary Research</i> , 2016, 12, 112. | 1.9 | 13 |
| 104 | Osteogenic priming potential of bovine hydroxyapatite sintered at different temperatures for tissue engineering applications. <i>Materials Letters</i> , 2017, 197, 83-86. | 2.6 | 13 |
| 105 | Development of poly (1, 8-octanediol citrate)/chitosan blend films for tissue engineering applications. <i>Carbohydrate Polymers</i> , 2017, 175, 618-627. | 10.2 | 13 |
| 106 | Prospects of implant with locking plate in fixation of subtrochanteric fracture: experimental demonstration of its potential benefits on synthetic femur model with supportive hierarchical nonlinear hyperelastic finite element analysis. <i>BioMedical Engineering OnLine</i> , 2012, 11, 23. | 2.7 | 12 |
| 107 | Reprogramming cancer cells: overview & current progress. <i>Expert Opinion on Biological Therapy</i> , 2016, 16, 941-951. | 3.1 | 12 |
| 108 | Number of pegs influence focal stress distributions and micromotion in glenoid implants: a finite element study. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 439-447. | 2.8 | 12 |

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|-----|---|-----|-----------|
| 109 | Platelet rich concentrate enhances mesenchymal stem cells capacity to repair focal cartilage injury in rabbits. <i>Injury</i> , 2018, 49, 775-783. | 1.7 | 12 |
| 110 | Replantation and revascularization of amputated upper limb appendages outcome and predicting the factors influencing the success rates of these procedures in a tertiary hospital: An 8-year retrospective, cross-sectional study. <i>Journal of Orthopaedic Surgery</i> , 2018, 26, 230949901774998. | 1.0 | 12 |
| 111 | Development of generic Asian pelvic bone models using CT-based 3D statistical modelling. <i>Journal of Orthopaedic Translation</i> , 2020, 20, 100-106. | 3.9 | 12 |
| 112 | Comparative investigation on antibacterial, biological and mechanical behaviour of monticellite and diopside derived from biowaste for bone regeneration. <i>Materials Chemistry and Physics</i> , 2022, 286, 126157. | 4.0 | 12 |
| 113 | Calcium-Silicate-Incorporated Gellan-Chitosan Induced Osteogenic Differentiation in Mesenchymal Stromal Cells. <i>Polymers</i> , 2021, 13, 3211. | 4.5 | 11 |
| 114 | Fate of tenogenic differentiation potential of human bone marrow stromal cells by uniaxial stretching affected by stretch-activated calcium channel agonist gadolinium. <i>PLoS ONE</i> , 2017, 12, e0178117. | 2.5 | 11 |
| 115 | Platelet-rich concentrate in serum free medium enhances osteogenic differentiation of bone marrow-derived human mesenchymal stromal cells. <i>PeerJ</i> , 2016, 4, e2347. | 2.0 | 11 |
| 116 | High-Risk Behavior of HIV/AIDS among Females Sex Workers in Bangladesh: Survey in Rajshahi City. <i>Japanese Journal of Infectious Diseases</i> , 2014, 67, 191-196. | 1.2 | 11 |
| 117 | The Fabrication and Characterization of PCL/Rice Husk Derived Bioactive Glass-Ceramic Composite Scaffolds. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-9. | 2.7 | 10 |
| 118 | NO, carboxymethyl chitosan enhanced scaffold porosity and biocompatibility under e-beam irradiation at 50kGy. <i>International Journal of Biological Macromolecules</i> , 2014, 64, 115-122. | 7.5 | 10 |
| 119 | Synthesis and characterization of polyacids from palm acid oil and sunflower oil via addition reaction. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 6616-6619. | 2.2 | 9 |
| 120 | Differential Protein Expression between Chondrogenic Differentiated MSCs, Undifferentiated MSCs and Adult Chondrocytes Derived from <i>Oryctolagus cuniculus</i> in vitro. <i>International Journal of Medical Sciences</i> , 2014, 11, 24-33. | 2.5 | 9 |
| 121 | Fluoroscopy Assisted Minimally Invasive Transplantation of Allogenic Mesenchymal Stromal Cells Embedded in HyStem Reduces the Progression of Nucleus Pulposus Degeneration in the Damaged Intervertebral Disc: A Preliminary Study in Rabbits. <i>Scientific World Journal</i> , The, 2014, 2014, 1-11. | 2.1 | 9 |
| 122 | Knee laxity of Malaysian adults: Gender differentials, and association with age and anthropometric measures. <i>Knee</i> , 2014, 21, 557-562. | 1.6 | 9 |
| 123 | In Vitro Evaluation of Bioactivity of Chemically Deposited Hydroxyapatite on Polyether Ether Ketone. <i>International Journal of Biomaterials</i> , 2015, 2015, 1-5. | 2.4 | 9 |
| 124 | Effects of carbon doping on the microstructural, micro/nano-mechanical, and mesenchymal stromal cells biocompatibility and osteogenic differentiation properties of alumina. <i>Ceramics International</i> , 2016, 42, 18247-18256. | 4.8 | 9 |
| 125 | Investigation on bioactivity, mechanical stability, bactericidal activity and in-vitro biocompatibility of magnesium silicates for bone tissue engineering applications. <i>Journal of Materials Research</i> , 2022, 37, 608-621. | 2.6 | 9 |
| 126 | Influence of anthropometric measures and socio-demographic factors on menstrual pain and irregular menstrual cycles among university students in Bangladesh. <i>Anthropological Science</i> , 2011, 119, 239-246. | 0.4 | 8 |

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|-----|--|-----|-----------|
| 127 | Comparative analysis of autologous chondrocyte implantation and other treatment modalities: a systematic review. <i>European Journal of Orthopaedic Surgery and Traumatology</i> , 2012, 22, 89-96. | 1.4 | 8 |
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