

Bikaramjit Basu

List of Publications by Year in Descending Order

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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.

327
papers

6,777
citations

45
h-index

67
g-index

344
ext. papers

7,867
ext. citations

5.3
avg, IF

6.58
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 327 | Development and Validation of a Finite Element Model of Wear in UHMWPE Liner Using Experimental Data From Hip Simulator Studies. <i>Journal of Biomechanical Engineering</i> , 2022 , 144, | 2.1 | 1 |
| 326 | Biomaterialomics: Data Science-driven Pathways to develop fourth-Generation Biomaterials.. <i>Acta Biomaterialia</i> , 2022 , | 10.8 | 4 |
| 325 | Insights into In Situ Compatibilization of Polydimethylsiloxane-Modified Thermoplastic Polyurethanes by Dynamic Crosslinking: Relating Experiments to Predictive Models. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 3752-3769 | 4.3 | 0 |
| 324 | Probing lubricated sliding wear properties of HDPE/UHMWPE hybrid bionanocomposite.. <i>Journal of Biomaterials Applications</i> , 2022 , 8853282221085633 | 2.9 | 1 |
| 323 | Functionalized Fluoropolymer-Compatibilized Elastomeric Bilayer Composites for Osteochondral Repair: Unraveling the Role of Substrate Stiffness and Functionalities.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 8543-8558 | 4.1 | 2 |
| 322 | Biomaterials assisted reconstructive urology: The pursuit of an implantable bioengineered neo-urinary bladder.. <i>Biomaterials</i> , 2021 , 281, 121331 | 15.6 | 2 |
| 321 | Tunable Substrate Functionalities Direct Stem Cell Fate toward Electrophysiologically Distinguishable Neuron-like and Glial-like Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 164-185 | 9.5 | 7 |
| 320 | Evaluation of implant properties, safety profile and clinical efficacy of patient-specific acrylic prosthesis in cranioplasty using 3D binderjet printed cranium model: A pilot study. <i>Journal of Clinical Neuroscience</i> , 2021 , 85, 132-142 | 2.2 | 5 |
| 319 | Experimental approach to probe into mechanisms of high-temperature erosion of NbB2-ZrO2. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 3518-3530 | 3.8 | 0 |
| 318 | Automated Image Processing Workflow for Morphological Analysis of Fluorescence Microscopy Cell Images. <i>Jom</i> , 2021 , 73, 2356 | 2.1 | 1 |
| 317 | Development of ZrB2-Based Single Layer Absorber Coating and Molten Salt Corrosion of Bulk ZrB2BiC Ceramic for Concentrated Solar Power Application. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 13581-13589 | 3.8 | 1 |
| 316 | Tissue-specific mesenchymal stem cell-dependent osteogenesis in highly porous chitosan-based bone analogs. <i>Stem Cells Translational Medicine</i> , 2021 , 10, 303-319 | 6.9 | 9 |
| 315 | Effect of Fe ³⁺ substitution on the structural modification and band structure modulated UV absorption of hydroxyapatite. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 332-344 | 2 | 2 |
| 314 | On the origin of spectrally selective high solar absorptance of TiB2-based tandem absorber with double layer antireflection coatings. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 220, 110839 | 6.4 | 9 |
| 313 | Electric Field-Mediated Fibronectin-Hydroxyapatite Interaction: A Molecular Insight. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 3-16 | 3.4 | 4 |
| 312 | Dynamically crosslinked polydimethylsiloxane-based polyurethanes with contact-killing antimicrobial properties as implantable alloplasts for urological reconstruction. <i>Acta Biomaterialia</i> , 2021 , 129, 122-137 | 10.8 | 10 |
| 311 | Dosimetry of pulsed magnetic field towards attaining bacteriostatic effect on <i>Enterococcus faecalis</i> : Implications for endodontic therapy. <i>International Endodontic Journal</i> , 2021 , 54, 1878-1891 | 5.4 | 2 |

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| 310 | Biomaterials-based bioengineering strategies for bioelectronic medicine. <i>Materials Science and Engineering Reports</i> , 2021 , 146, 100630 | 30.9 | 4 |
| 309 | Mechanical Properties of Ceramics 2020 , 71-101 | | |
| 308 | Probing Ink-Powder Interactions during 3D Binder Jet Printing Using Time-Resolved X-ray Imaging. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 34254-34264 | 9.5 | 12 |
| 307 | Sliding Wear of Zirconia-Toughened Alumina 2020 , 215-226 | | |
| 306 | Thermo-Erosive Behavior of ZrB ₂ -SiC Composites 2020 , 265-277 | | |
| 305 | Review on ultra-high temperature boride ceramics. <i>Progress in Materials Science</i> , 2020 , 111, 100651 | 42.2 | 96 |
| 304 | UHMWPE-MWCNT-nHA based hybrid trilayer nanobiocomposite: Processing approach, physical properties, stem/bone cell functionality, and blood compatibility. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020 , 108, 2320-2343 | 3.5 | 2 |
| 303 | Probing the Influence of Sterilization on the Oxidation, Crystallization, Sliding Wear Resistance, and Cytocompatibility of Chemically Modified Graphene-Oxide-Reinforced HDPE/UHMWPE Nanocomposites and Wear Debris. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 1462-1475 | 5.5 | 8 |
| 302 | Ceramics for Armor Applications 2020 , 245-260 | | |
| 301 | Impact of Core-shell mode of printing on properties of 3D binderjet printed zirconia-alumina based bioceramics. <i>Open Ceramics</i> , 2020 , 3, 100026 | 3.3 | 4 |
| 300 | 2020 , | | 4 |
| 299 | Biomaterials Science and Implants 2020 , | | 4 |
| 298 | SiCNO Coatings Enhance Endothelialization and Bactericidal activity and Reduce Blood Cell Activation. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 5571-5587 | 5.5 | 7 |
| 297 | Critical comparison of image analysis workflows for quantitative cell morphological evaluation in assessing cell response to biomaterials. <i>Biomedical Materials (Bristol)</i> , 2020 , | 3.5 | 1 |
| 296 | Neurogenesis-on-Chip: Electric field modulated transdifferentiation of human mesenchymal stem cell and mouse muscle precursor cell coculture. <i>Biomaterials</i> , 2020 , 226, 119522 | 15.6 | 18 |
| 295 | Computational and Microstructural Stability Analysis of Shock Wave Interaction with NbB-BC-Based Nanostructured Ceramics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47491-47500 | 9.5 | 8 |
| 294 | Experimental and computational analysis for thermo-erosive stability assessment of ZrB ₂ -SiC based multiphase composites. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019 , 84, 104972 | 4.1 | 6 |
| 293 | Epitaxial growth of 3C-SiC (111) on Si via laser CVD carbonization. <i>Journal of Asian Ceramic Societies</i> , 2019 , 7, 312-320 | 2.4 | 3 |

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|-----|--|------|----|
| 292 | Shock wave-material interaction in ZrB ₂ SiC based ultra high temperature ceramics for hypersonic applications. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 6925-6938 | 3.8 | 16 |
| 291 | 3D inkjet printing of biomaterials with strength reliability and cytocompatibility: Quantitative process strategy for Ti-6Al-4V. <i>Biomaterials</i> , 2019 , 213, 119212 | 15.6 | 27 |
| 290 | Biophysical implications of Maxwell stress in electric field stimulated cellular microenvironment on biomaterial substrates. <i>Biomaterials</i> , 2019 , 209, 54-66 | 15.6 | 7 |
| 289 | Perovskite Ceramics as New-Generation Materials for Orthopedic Applications. <i>Transactions of the Indian Institute of Metals</i> , 2019 , 72, 1999-2010 | 1.2 | 7 |
| 288 | Periprosthetic biomechanical response towards dental implants, with functional gradation, for single/multiple dental loss. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 94, 249-258 | 4.1 | 9 |
| 287 | Faster Biomineralization and Tailored Mechanical Properties of Marine-Resource-Derived Hydroxyapatite Scaffolds with Tunable Interconnected Porous Architecture.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 2171-2184 | 4.1 | 12 |
| 286 | Spark Plasma Sintering of Ultrahigh Temperature Ceramics 2019 , 369-440 | | 7 |
| 285 | Analysis of Electrical Analogue of a Biological Cell and Its Response to External Electric Field. <i>Regenerative Engineering and Translational Medicine</i> , 2019 , 5, 10-21 | 2.4 | 3 |
| 284 | Reprogramming the Stem Cell Behavior by Shear Stress and Electric Field Stimulation: Lab-on-a-Chip Based Biomicrofluidics in Regenerative Medicine. <i>Regenerative Engineering and Translational Medicine</i> , 2019 , 5, 99-127 | 2.4 | 6 |
| 283 | The Foreign Body Response Demystified. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 19-44 | 5.5 | 61 |
| 282 | Temperature- and Angle-Dependent Emissivity and Thermal Shock Resistance of the W/WAlN/WAlON/Al ₂ O ₃ -Based Spectrally Selective Absorber. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5557-5567 | 6.1 | 14 |
| 281 | Probing Local Mechanical Properties in Polymer-Ceramic Hybrid Acetabular Sockets Using Spherical Indentation Stress-Strain Protocols. <i>Integrating Materials and Manufacturing Innovation</i> , 2019 , 8, 257-272 | 2.9 | 5 |
| 280 | Doped biphasic calcium phosphate: synthesis and structure. <i>Journal of Asian Ceramic Societies</i> , 2019 , 7, 265-283 | 2.4 | 18 |
| 279 | An Overview of Hydrogel-Based Bioinks for 3D Bioprinting of Soft Tissues. <i>Journal of the Indian Institute of Science</i> , 2019 , 99, 405-428 | 2.4 | 18 |
| 278 | HDPE/UHMWPE hybrid nanocomposites with surface functionalized graphene oxide towards improved strength and cytocompatibility. <i>Journal of the Royal Society Interface</i> , 2019 , 16, 20180273 | 4.1 | 22 |
| 277 | Epithelial cell functionality on electroconductive Fe/Sr co-doped biphasic calcium phosphate. <i>Journal of Biomaterials Applications</i> , 2019 , 33, 1035-1052 | 2.9 | 7 |
| 276 | 3D powder printed tetracalcium phosphate scaffold with phytic acid binder: fabrication, microstructure and in situ X-Ray tomography analysis of compressive failure. <i>Journal of Materials Science: Materials in Medicine</i> , 2018 , 29, 29 | 4.5 | 17 |
| 275 | Critical role of ZrO ₂ on densification and microstructure development in spark plasma sintered NbB ₂ . <i>Acta Materialia</i> , 2018 , 152, 215-228 | 8.4 | 10 |

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|-----|---|------|-----|
| 274 | Epitaxial growth of 3CBiC on Si(111) and (001) by laser CVD. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 3850-3856 | 3.8 | 4 |
| 273 | Biomimetic porous high-density polyethylene/polyethylene- grafted-maleic anhydride scaffold with improved in vitro cytocompatibility. <i>Journal of Biomaterials Applications</i> , 2018 , 32, 1450-1463 | 2.9 | 4 |
| 272 | Zirconia toughened mica glass ceramics for dental restorations. <i>Dental Materials</i> , 2018 , 34, e36-e45 | 5.7 | 18 |
| 271 | Spark plasma sintered HA-ZnO ultrafine composite: Mechanical, bactericidal, and cytocompatibility properties. <i>International Journal of Applied Ceramic Technology</i> , 2018 , 15, 961-969 | 2 | 3 |
| 270 | (Fe/Sr) Codoped Biphasic Calcium Phosphate with Tailored Osteoblast Cell Functionality. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 857-871 | 5.5 | 32 |
| 269 | ZrO-toughened AlO composites with better fracture and wear resistance properties. <i>Journal of Biomaterials Applications</i> , 2018 , 32, 1174-1186 | 2.9 | 10 |
| 268 | Unraveling the mechanistic effects of electric field stimulation towards directing stem cell fate and function: A tissue engineering perspective. <i>Biomaterials</i> , 2018 , 150, 60-86 | 15.6 | 147 |
| 267 | Implementing statistical modeling approach towards development of ultrafine grained bioceramics: Case of ZrO ₂ -toughened Al ₂ O ₃ . <i>Journal of the American Ceramic Society</i> , 2018 , 101, 1333-1343 | 3.8 | 6 |
| 266 | Probing the influence of post-processing on microstructure and in situ compression failure with in silico modeling of 3D-printed scaffolds. <i>Journal of Materials Research</i> , 2018 , 33, 2062-2076 | 2.5 | 4 |
| 265 | Finite Element Analysis to Probe the Influence of Acetabular Shell Design, Liner Material, and Subject Parameters on Biomechanical Response in Periprosthetic Bone. <i>Journal of Biomechanical Engineering</i> , 2018 , 140, | 2.1 | 9 |
| 264 | Shifting of the absorption edge in TiB ₂ /TiB(N)/Si ₃ N ₄ solar selective coating for enhanced photothermal conversion. <i>Solar Energy</i> , 2018 , 173, 192-200 | 6.8 | 15 |
| 263 | Controlled Shear Flow Directs Osteogenesis on UHMWPE-Based Hybrid Nanobiocomposites in a Custom-Designed PMMA Microfluidic Device.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 414-435 | 4.1 | 9 |
| 262 | Probing Cytocompatibility, Hemocompatibility, and Quantitative Inflammatory Response in toward Oxide Bioceramic Wear Particulates and a Comparison with CoCr. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 3194-3210 | 5.5 | 9 |
| 261 | High-entropy alloys and metallic nanocomposites: Processing challenges, microstructure development and property enhancement. <i>Materials Science and Engineering Reports</i> , 2018 , 131, 1-42 | 30.9 | 80 |
| 260 | Competition between densification and microstructure development during spark plasma sintering of B ₄ C/Bu ₂ O ₃ . <i>Journal of the American Ceramic Society</i> , 2018 , 101, 2516-2526 | 3.8 | 4 |
| 259 | Opportunities and challenges in processing and fabrication of ultra high temperature ceramics for hypersonic space vehicles: a case study with ZrB ₂ BiC. <i>Advances in Applied Ceramics</i> , 2018 , 117, s2-s8 | 2.3 | 4 |
| 258 | Simultaneous Exfoliation and Functionalization of 2H-MoS by Thiolated Surfactants: Applications in Enhanced Antibacterial Activity. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12634-12644 | 16.4 | 107 |
| 257 | Competent processing techniques for scaffolds in tissue engineering. <i>Biotechnology Advances</i> , 2017 , 35, 240-250 | 17.8 | 68 |

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| 256 | Thermo-structural design of ZrB ₂ SiC-based thermal protection system for hypersonic space vehicles. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1618-1633 | 3.8 | 35 |
| 255 | Lightweight Nanostructured Materials and Their Certification for Wind Energy Applications 2017 , 323-352 | | |
| 254 | Synergy of substrate conductivity and intermittent electrical stimulation towards osteogenic differentiation of human mesenchymal stem cells. <i>Bioelectrochemistry</i> , 2017 , 116, 52-64 | 5.6 | 22 |
| 253 | Thermal inkjet 3D powder printing of metals and alloys: Current status and challenges. <i>Current Opinion in Biomedical Engineering</i> , 2017 , 2, 116-123 | 4.4 | 17 |
| 252 | On The Origin of Shear Stress Induced Myogenesis Using PMMA Based Lab-on-Chip. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 1154-1171 | 5.5 | 16 |
| 251 | Solar energy absorption mediated by surface plasma polaritons in spectrally selective dielectric-metal-dielectric coatings: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 79, 1050-1077 | 16.2 | 80 |
| 250 | Experimental and computational analysis of thermo-oxidative-structural stability of ZrB ₂ SiC _{0.1} during arc-jet testing. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4860-4873 | 3.8 | 24 |
| 249 | ZrO-toughened AlO-based near-net shaped femoral head: Unique fabrication approach, 3D microstructure, burst strength and muscle cell response. <i>Materials Science and Engineering C</i> , 2017 , 77, 1216-1227 | 8.3 | 8 |
| 248 | Case Study: Hydroxyapatite/Titanium Bulk Composites for Bone Tissue Engineering Applications. <i>Indian Institute of Metals Series</i> , 2017 , 15-44 | 0.3 | |
| 247 | Probing Toxicity of Biomaterials and Biocompatibility Assessment. <i>Indian Institute of Metals Series</i> , 2017 , 291-351 | 0.3 | 1 |
| 246 | Fundamentals of Scaffolds Fabrication Using Low Temperature Additive Manufacturing. <i>Indian Institute of Metals Series</i> , 2017 , 127-173 | 0.3 | 2 |
| 245 | Biomaterials for Musculoskeletal Regeneration. <i>Indian Institute of Metals Series</i> , 2017 , | 0.3 | 5 |
| 244 | Corrosion and Degradation of Implantable Biomaterials. <i>Indian Institute of Metals Series</i> , 2017 , 253-289 | 0.3 | 2 |
| 243 | Engineered biomaterial and biophysical stimulation as combinatorial strategies to address prosthetic infection by pathogenic bacteria. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 2174-2190 | 3.5 | 9 |
| 242 | Microstructure and compression properties of 3D powder printed Ti-6Al-4V scaffolds with designed porosity: Experimental and computational analysis. <i>Materials Science and Engineering C</i> , 2017 , 70, 812-823 | 8.3 | 76 |
| 241 | Competing Roles of Substrate Composition, Microstructure, and Sustained Strontium Release in Directing Osteogenic Differentiation of hMSCs. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19389-19408 | 8.5 | 21 |
| 240 | Three Dimensional Porous Scaffolds: Mechanical and Biocompatibility Properties. <i>Indian Institute of Metals Series</i> , 2017 , 353-384 | 0.3 | |
| 239 | Case Study: Development of Acetabular Socket Prototype. <i>Indian Institute of Metals Series</i> , 2017 , 151-170 | 0.3 | |

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| 238 | Case Study: Osseointegration of Strontium Containing Glass Ceramic. <i>Indian Institute of Metals Series</i> , 2017 , 73-98 | 0.3 | |
| 237 | Processing, Tensile and Fracture Properties of Injection Molded HDPE/Al ₂ O ₃ /Ap Hybrid Composites. <i>Indian Institute of Metals Series</i> , 2017 , 125-150 | 0.3 | |
| 236 | A Way Forward. <i>Indian Institute of Metals Series</i> , 2017 , 247-257 | 0.3 | |
| 235 | Development of ZrB ₂ -SiC-Ti by multi stage spark plasma sintering at 1600°C. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 393-402 | 1 | 35 |
| 234 | High Antibacterial Activity of Functionalized Chemically Exfoliated MoS ₂ . <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31567-31573 | 9.5 | 111 |
| 233 | Structure-Property Relationship in an Electroconductive Hydroxyapatite-Titanium Disilicide Composite. <i>International Journal of Applied Ceramic Technology</i> , 2016 , 13, 773-786 | 2 | 3 |
| 232 | Twinning induced enhancement of fracture toughness in ultrafine grained Hydroxyapatite-Calcium Titanate composites. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 805-815 | 6 | 14 |
| 231 | Synergistic effect of polymorphism, substrate conductivity and electric field stimulation towards enhancing muscle cell growth in vitro. <i>RSC Advances</i> , 2016 , 6, 10837-10845 | 3.7 | 26 |
| 230 | Low temperature additive manufacturing of three dimensional scaffolds for bone-tissue engineering applications: Processing related challenges and property assessment. <i>Materials Science and Engineering Reports</i> , 2016 , 103, 1-39 | 30.9 | 142 |
| 229 | Three-dimensional plotted hydroxyapatite scaffolds with predefined architecture: comparison of stabilization by alginate cross-linking versus sintering. <i>Journal of Biomaterials Applications</i> , 2016 , 30, 1168-81 | 2.9 | 25 |
| 228 | Electrically driven intracellular and extracellular nanomanipulators evoke neurogenic/cardiomyogenic differentiation in human mesenchymal stem cells. <i>Biomaterials</i> , 2016 , 77, 26-43 | 15.6 | 47 |
| 227 | Strength reliability and in vitro degradation of three-dimensional powder printed strontium-substituted magnesium phosphate scaffolds. <i>Acta Biomaterialia</i> , 2016 , 31, 401-411 | 10.8 | 62 |
| 226 | Pigmented Silk Nanofibrous Composite for Skeletal Muscle Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1222-32 | 10.1 | 60 |
| 225 | Uniaxial Compaction-Based Manufacturing Strategy and 3D Microstructural Evaluation of Near-Net-Shaped ZrO ₂ -Toughened Al ₂ O ₃ Acetabular Socket. <i>Advanced Engineering Materials</i> , 2016 , 18, 1634-1644 | 3.5 | 9 |
| 224 | Inhibitory effect of direct electric field and HA-ZnO composites on S. aureus biofilm formation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 1064-75 | 3.5 | 15 |
| 223 | Bacterial siderophore mimicking iron complexes as DNA targeting antimicrobials. <i>RSC Advances</i> , 2016 , 6, 39245-39260 | 3.7 | 14 |
| 222 | Modulation of Protein Adsorption and Cell Proliferation on Polyethylene Immobilized Graphene Oxide Reinforced HDPE Bionanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11954-68 | 9.5 | 26 |
| 221 | Modulated in Vitro Biocompatibility of a Unique Cross-Linked Salicylic Acid-Poly(ϵ -caprolactone)-Based Biodegradable Polymer. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29721-29733 | 9.5 | 17 |

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| 220 | Surface-Functionalized Silk Fibroin Films as a Platform To Guide Neuron-like Differentiation of Human Mesenchymal Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22849-59 | 9.5 | 52 |
| 219 | Absence of systemic toxicity in mouse model towards BaTiO ₃ nanoparticulate based eluate treatment. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 103 | 4.5 | 20 |
| 218 | Phase stability of silver particles embedded calcium phosphate bioceramics. <i>Bulletin of Materials Science</i> , 2015 , 38, 525-529 | 1.7 | 7 |
| 217 | Magnetic field assisted stem cell differentiation - role of substrate magnetization in osteogenesis. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 3150-3168 | 7.3 | 42 |
| 216 | Dynamic compression behavior of reactive spark plasma sintered ultrafine grained (Hf, Zr)B ₂ SiC composites. <i>Ceramics International</i> , 2015 , 41, 8468-8474 | 5.1 | 14 |
| 215 | Structural and Magnetic Phase Transformations of Hydroxyapatite-Magnetite Composites under Inert and Ambient Sintering Atmospheres. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 6539-6555 | 3.8 | 42 |
| 214 | Interplay of Substrate Conductivity, Cellular Microenvironment, and Pulsatile Electrical Stimulation toward Osteogenesis of Human Mesenchymal Stem Cells in Vitro. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23015-28 | 9.5 | 60 |
| 213 | Differential viability response of prokaryotes and eukaryotes to high strength pulsed magnetic stimuli. <i>Bioelectrochemistry</i> , 2015 , 106, 276-89 | 5.6 | 17 |
| 212 | Biocompatibility property of 100% strontium-substituted SiO ₂ -Al ₂ O ₃ -P ₂ O ₅ -CaO-CaF ₂ glass ceramics over 26 weeks implantation in rabbit model: Histology and micro-Computed Tomography analysis. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 1168-79 | 3.5 | 14 |
| 211 | Conductivity Studies of Silver-, Potassium-, and Magnesium-Doped Hydroxyapatite. <i>International Journal of Applied Ceramic Technology</i> , 2015 , 12, 319-328 | 2 | 6 |
| 210 | Hydroxyapatite-titanium bulk composites for bone tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 791-806 | 5.4 | 42 |
| 209 | Vertical electric field induced bacterial growth inactivation on amorphous carbon electrodes. <i>Carbon</i> , 2015 , 81, 193-202 | 10.4 | 14 |
| 208 | Flow Cytometry Analysis of Cytotoxicity In Vitro and Long-Term Toxicity of HA-40wt% BaTiO ₃ Nanoparticles In Vivo. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 3202-3211 | 3.8 | 5 |
| 207 | Cytotoxicity of Ultrasmall Gold Nanoparticles on Planktonic and Biofilm Encapsulated Gram-Positive Staphylococci. <i>Small</i> , 2015 , 11, 3183-93 | 11 | 61 |
| 206 | Conceptual design of three-dimensional scaffolds of powder-based materials for bone tissue engineering applications. <i>Rapid Prototyping Journal</i> , 2015 , 21, 716-724 | 3.8 | 19 |
| 205 | Long-term sustained release of salicylic acid from cross-linked biodegradable polyester induces a reduced foreign body response in mice. <i>Biomacromolecules</i> , 2015 , 16, 636-49 | 6.9 | 30 |
| 204 | In vitro osteogenic cell proliferation, mineralization, and in vivo osseointegration of injection molded high-density polyethylene-based hybrid composites in rabbit animal model. <i>Journal of Biomaterials Applications</i> , 2014 , 29, 142-57 | 2.9 | 13 |
| 203 | Conformal cytocompatible ferrite coatings facilitate the realization of a nanovoyager in human blood. <i>Nano Letters</i> , 2014 , 14, 1968-75 | 11.5 | 126 |

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|-----|--|------|-----|
| 202 | Spark Plasma Sintering of Nanoceramic Composites 2014 , 177-205 | | 5 |
| 201 | In vitro/In vivo assessment and mechanisms of toxicity of bioceramic materials and its wear particulates. <i>RSC Advances</i> , 2014 , 4, 12763 | 3.7 | 63 |
| 200 | Cross-linked, biodegradable, cytocompatible salicylic acid based polyesters for localized, sustained delivery of salicylic acid: an in vitro study. <i>Biomacromolecules</i> , 2014 , 15, 863-75 | 6.9 | 40 |
| 199 | Synergistic effect of static magnetic field and HA-Fe ₃ O ₄ magnetic composites on viability of S. aureus and E. coli bacteria. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014 , 102, 524-32 | 3.5 | 20 |
| 198 | Microstructure-hardness-fretting wear resistance correlation in ultrafine grained Cu ₃ TiB ₂ Pb composites. <i>Wear</i> , 2014 , 319, 160-171 | 3.5 | 11 |
| 197 | Microstructure Development, Nanomechanical, and Dynamic Compression Properties of Spark Plasma Sintered TiB ₂ -Ti-Based Homogeneous and Bi-layered Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 4646-4664 | 2.3 | 9 |
| 196 | Pulsed Electrical Stimulation and Surface Charge Induced Cell Growth on Multistage Spark Plasma Sintered Hydroxyapatite-Barium Titanate Piezobiocomposite. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 481-489 | 3.8 | 40 |
| 195 | Microstructure and Properties of Spark Plasma-Sintered ZrO ₂ /TiB ₂ Nanoceramic Composites 2014 , 455-462 | | 0 |
| 194 | Better early osteogenesis of electroconductive hydroxyapatite-calcium titanate composites in a rabbit animal model. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 842-51 | 5.4 | 17 |
| 193 | Titanium Diboride 2014 , 316-360 | | 3 |
| 192 | Orthopaedic biomaterials: current status and future perspective. <i>Materials Technology</i> , 2014 , 29, B2-B3 | 2.1 | 3 |
| 191 | Intermittent electrical stimuli for guidance of human mesenchymal stem cell lineage commitment towards neural-like cells on electroconductive substrates. <i>Biomaterials</i> , 2014 , 35, 6219-35 | 15.6 | 105 |
| 190 | Microstructure-Wear Resistance Correlation and Wear Mechanisms of Spark Plasma Sintered Cu-Pb Nanocomposites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 482-500 | 2.3 | 5 |
| 189 | Pulsed electric field mediated in vitro cellular response of fibroblast and osteoblast-like cells on conducting austenitic stainless steel substrate. <i>Journal of Materials Science: Materials in Medicine</i> , 2013 , 24, 1789-98 | 4.5 | 14 |
| 188 | Microengineered Polymer- and Ceramic-Based Biomaterial Scaffolds: A Topical Review on Design, Processing, and Biocompatibility Properties 2013 , 80-118 | | |
| 187 | Fretting wear study of Cu ₁₀ wt% TiB ₂ and Cu ₁₀ wt% TiB ₂ /10wt% Pb composites. <i>Wear</i> , 2013 , 306, 138-148 | 3.5 | 17 |
| 186 | In vitro biocompatibility of novel biphasic calcium phosphate-mullite composites. <i>Journal of Biomaterials Applications</i> , 2013 , 27, 497-509 | 2.9 | 17 |
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