Sonny B Bal

List of Publications by Year
in descending order

176 papers	7,523 citations	61984 43 h-index	58581 82 g-index
191 all docs	191 docs citations	191 times ranked	6254 citing authors

#	Article	IF	Citations
1	Bioactive glass in tissue engineering. Acta Biomaterialia, 2011, 7, 2355-2373.	8.3	1,421
2	Ceramics for Prosthetic Hip and Knee Joint Replacement. Journal of the American Ceramic Society, 2007, 90, 1965-1988.	3.8	294
3	Mechanical and in vitro performance of 13â€“93 bioactive glass scaffolds prepared by a polymer foam replication technique. Acta Biomaterialia, 2008, 4, 1854-1864.	8.3	267
4	Orthopedic applications of silicon nitride ceramics. Acta Biomaterialia, 2012, 8, 2889-2898.	8.3	251
5	An Introduction to Medical Malpractice in the United States. Clinical Orthopaedics and Related Research, 2009, 467, 339-347.	1.5	197
6	Anti-infective and osteointegration properties of silicon nitride, poly(ether ether ketone), and titanium implants. Acta Biomaterialia, 2012, 8, 4447-4454.	8.3	193
7	Mechanical properties of bioactive glass (13-93) scaffolds fabricated by robotic deposition for structural bone repair. Acta Biomaterialia, 2013, 9, 7025-7034.	8.3	178
8	Ceramics and ceramic coatings in orthopaedics. Journal of the European Ceramic Society, 2015, 35, 4327-4369.	5.7	167
9	Silicate, borosilicate, and borate bioactive glass scaffolds with controllable degradation rate for bone tissue engineering applications. II. In vitro and in vivo biological evaluation. Journal of Biomedical Materials Research - Part A, 2010, 95A, 172-179.	4.0	163
10	Effect of borate glass composition on its conversion to hydroxyapatite and on the proliferation of MC3T3â€E1 cells. Journal of Biomedical Materials Research - Part A, 2009, 88A, 392-400.	4.0	156
11	Freeze casting of porous hydroxyapatite scaffolds. I. Processing and general microstructure. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 86B, 125-135.	3.4	149
12	Clinical fracture of cross-linked UHMWPE acetabular liners. Biomaterials, 2009, 30, 5572-5582.	11.4	149
13	Early Complications of Primary Total Hip Replacement Performed with a Two-Incision Minimally Invasive Technique. Journal of Bone and Joint Surgery - Series A, 2005, 87, 2432.	3.0	107
14	Medical Malpractice in Hip and Knee Arthroplasty. Journal of Arthroplasty, 2007, 22, 2-7.e4.	3.1	106
15	Preparation and bioactive characteristics of a porous 13â€“93 glass, and fabrication into the articulating surface of a proximal tibia. Journal of Biomedical Materials Research - Part A, 2007, 82A, 222-229.	4.0	100
16	Surface modulation of silicon nitride ceramics for orthopaedic applications. Acta Biomaterialia, 2015, 26, 318-330.	8.3	100
17	Hollow hydroxyapatite microspheres: A novel bioactive and osteoconductive carrier for controlled release of bone morphogenetic protein-2 in bone regeneration. Acta Biomaterialia, 2013, 9, 8374-8383.	8.3	94
18	Decreased bacteria activity on Si3N4 surfaces compared with PEEK or titanium. International Journal of Nanomedicine, 2012, 7, 4829.	6.7	93

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19	Fabrication and Testing of Silicon Nitride Bearings in Total Hip Arthroplasty. Journal of Arthroplasty, 2009, 24, 110-116.	3.1	91
20	Porous and strong bioactive glass (13â€“93) scaffolds fabricated by freeze extrusion technique. Materials Science and Engineering C, 2011, 31, 1482-1489.	7.3	91
21	Freeze casting of porous hydroxyapatite scaffolds. II. Sintering, microstructure, and mechanical behavior. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 86B, 514-522.	3.4	84
22	Freeze-cast hydroxyapatite scaffolds for bone tissue engineering applications. Biomedical Materials (Bristol), 2008, 3, 025005.	3.3	78
23	Preparation and in vitro evaluation of bioactive glass (13â€“93) scaffolds with oriented microstructures for repair and regeneration of loadâ€bearing bones. Journal of Biomedical Materials Research - Part A, 2010, 93A, 1380-1390.	4.0	77
24	Effect of copper-doped silicate 13â€“93 bioactive glass scaffolds on the response of MC3T3-E1 cells in vitro and on bone regeneration and angiogenesis in rat calvarial defects in vivo. Materials Science and Engineering C, 2016, 67, 440-452.	7.3	74
25	Silicon Nitride Bioceramics Induce Chemically Driven Lysis in Porphyromonas gingivalis. Langmuir, 2016, 32, 3024-3035.	3.5	73
26	Bioactive silicon nitride: A new therapeutic material for osteoarthropathy. Scientific Reports, 2017, 7, 44848.	3.3	70
27	Review: Emerging developments in the use of bioactive glasses for treating infected prosthetic joints. Materials Science and Engineering C, 2014, 41, 224-231.	7.3	68
28	Testing of silicon nitride ceramic bearings for total hip arthroplasty. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 87B, 447-454.	3.4	61
29	Human osteoblasts grow transitional Si/N apatite in quickly osteointegrated Si3N4 cervical insert. Acta Biomaterialia, 2017, 64, 411-420.	8.3	60
30	In vivo evaluation of 13â€93 bioactive glass scaffolds with trabecular and oriented microstructures in a subcutaneous rat implantation model. Journal of Biomedical Materials Research - Part A, 2010, 95A, 235-244.	4.0	58
31	Incorporating Si₃N₄ into PEEK to Produce Antibacterial, Osteocondutive, and Radiolucent Spinal Implants. Macromolecular Bioscience, 2018, 18, e1800033.	4.1	57
32	Surface topography of silicon nitride affects antimicrobial and osseointegrative properties of tibial implants in a murine model. Journal of Biomedical Materials Research - Part A, 2017, 105, 3413-3421.	4.0	56
33	Bacteriostatic behavior of surface modulated silicon nitride in comparison to polyetheretherketone and titanium. Journal of Biomedical Materials Research - Part A, 2017, 105, 1521-1534.	4.0	55
34	Enhanced bone regeneration in rat calvarial defects implanted with surface-modified and BMP-loaded bioactive glass (13-93) scaffolds. Acta Biomaterialia, 2013, 9, 7506-7517.	8.3	54
35	Silicon nitride surface chemistry: A potent regulator of mesenchymal progenitor cell activity in bone formation. Applied Materials Today, 2017, 9, 82-95.	4.3	54
36	Silicon Nitride: A Synthetic Mineral for Vertebrate Biology. Scientific Reports, 2016, 6, 31717.	3.3	48

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37	Identification of Synovial Fluid Biomarkers for Knee Osteoarthritis and Correlation with Radiographic Assessment. Journal of Knee Surgery, 2016, 29, 242-247.	1.6	48
38	Comparison of the response of primary human blood monocytes and the U937 human monocytic cell line to two different sizes of alumina ceramic particles. Journal of Orthopaedic Research, 2004, 22, 832-838.	2.3	47
39	Trochanteric Osteotomy for Total Hip Arthroplasty: Six Variations and Indications for Their Use. Journal of the American Academy of Orthopaedic Surgeons, The, 1996, 4, 258-267.	2.5	47
40	Transcriptional Induction of Matrix Metalloproteinase-9 in the Chondrocyte and Synoviocyte Cells Is Regulated via a Novel Mechanism: Evidence for Functional Cooperation between Serum Amyloid A-Activating Factor-1 and AP-1. Journal of Immunology, 2005, 175, 4039-4048.	0.8	45
41	The Effect of Cervical Interbody Cage Morphology, Material Composition, and Substrate Density on Cage Subsidence. Journal of the American Academy of Orthopaedic Surgeons, The, 2017, 25, 160-168.	2.5	45
42	Trochanteric union following revision total hip arthroplasty. Journal of Arthroplasty, 1998, 13, 29-33.	3.1	44
43	Preparation of resorbable carbonate-substituted hollow hydroxyapatite microspheres and their evaluation in osseous defects in vivo. Materials Science and Engineering C, 2016, 60, 324-332.	7.3	44
44	In Situ Spectroscopic Screening of Osteosarcoma Living Cells on Stoichiometry-Modulated Silicon Nitride Bioceramic Surfaces. ACS Biomaterials Science and Engineering, 2016, 2, 1121-1134.	5.2	43
45	Bioactive Glasses for Nonbearing Applications in Total Joint Replacement. Seminars in Arthroplasty, 2006, 17, 102-112.	0.7	42
46	In vitro cellular response to hydroxyapatite scaffolds with oriented pore architectures. Materials Science and Engineering C, 2009, 29, 2147-2153.	7.3	42
47	Robocasting of silicon nitride with controllable shape and architecture for biomedical applications. International Journal of Applied Ceramic Technology, 2017, 14, 117-127.	2.1	42
48	Improved Radiographic Outcomes With Patient-Specific Total Knee Arthroplasty. Journal of Arthroplasty, 2014, 29, 2100-2103.	3.1	41
49	Early Complications of Primary Total Hip Replacement Performed with a Two-Incision Minimally Invasive Technique. Journal of Bone and Joint Surgery - Series A, 2006, 88, 221-233.	3.0	40
50	Native nucleus pulposus tissue matrix promotes notochordal differentiation of human induced pluripotent stem cells with potential for treating intervertebral disc degeneration. Journal of Biomedical Materials Research - Part A, 2015, 103, 1053-1059.	4.0	39
51	The effect of devitalized trabecular bone on the formation of osteochondral tissue-engineered constructs. Biomaterials, 2008, 29, 4292-4299.	11.4	37
52	3D-additive deposition of an antibacterial and osteogenic silicon nitride coating on orthopaedic titanium substrate. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 103, 103557.	3.1	37
53	Medical Malpractice Reform: The Role of Alternative Dispute Resolution. Clinical Orthopaedics and Related Research, 2012, 470, 1370-1378.	1.5	36
54	Medical Liability of the Physician in Training. Clinical Orthopaedics and Related Research, 2012, 470, 1379-1385.	1.5	36

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55	Induction of matrix metalloproteinase 1 gene expression is regulated by inflammation-responsive transcription factor SAF-1 in osteoarthritis. Arthritis and Rheumatism, 2003, 48, 134-145.	6.7	35
56	Tibial Post Failures in a Condylar Posterior Cruciate Substituting Total Knee Arthroplasty. Journal of Arthroplasty, 2008, 23, 650-655.	3.1	35
57	In vivo outcomes of tissueâ€engineered osteochondral grafts. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 93B, 164-174.	3.4	35
58	The Significance of Metal Staining on Alumina Femoral Heads in Total Hip Arthroplasty. Journal of Arthroplasty, 2007, 22, 14-19.	3.1	34
59	Modulating Notochordal Differentiation of Human Induced Pluripotent Stem Cells Using Natural Nucleus Pulposus Tissue Matrix. PLoS ONE, 2014, 9, e100885.	2.5	34
60	In vitro antibacterial activity of oxide and non-oxide bioceramics for arthroplastic devices: I. In situ time-lapse Raman spectroscopy. Analyst, The, 2018, 143, 3708-3721.	3.5	31
61	A Review of Ceramic Bearing Materials in Total Joint Arthroplasty. HIP International, 2007, 17, 21-30.	1.7	29
62	Closed Medical Negligence Claims Can Drive Patient Safety and Reduce Litigation. Clinical Orthopaedics and Related Research, 2012, 470, 1398-1404.	1.5	29
63	Creation of bioactive glass (13â€“93) scaffolds for structural bone repair using a combined finite element modeling and rapid prototyping approach. Materials Science and Engineering C, 2016, 68, 651-662.	7.3	29
64	Anterior Trochanteric Slide Osteotomy for Primary Total Hip Arthroplasty. Review of Nonunion and Complications. Journal of Arthroplasty, 2006, 21, 59-63.	3.1	28
65	Functionally graded bioactive glass coating on magnesia partially stabilized zirconia (Mg-PSZ) for enhanced biocompatibility. Journal of Materials Science: Materials in Medicine, 2008, 19, 2325-2333.	3.6	28
66	Minimally invasive total hip arthroplasty with the anterior approach. Indian Journal of Orthopaedics, 2008, 42, 301.	1.1	28
67	Primary TKA With a Zirconia Ceramic Femoral Component. Journal of Knee Surgery, 2006, 19, 89-93.	1.6	27
68	Early Complications of Primary Total Hip Replacement Performed with a Two-Incision Minimally Invasive Technique. Journal of Bone and Joint Surgery - Series A, 2006, 88, 221-233.	3.0	27
69	WhatÊ¼s New in Total Hip Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2008, 90, 2043-2055.	3.0	25
70	The Expert Witness in Medical Malpractice Litigation. Clinical Orthopaedics and Related Research, 2009, 467, 383-391.	1.5	25
71	Ceramic Materials in Total Joint Arthroplasty. Seminars in Arthroplasty, 2006, 17, 94-101.	0.7	24
72	WhatÊ¼s New in Total Hip Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2009, 91, 2522-2534.	3.0	23

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73	Tough and strong porous bioactive glass-PLA composites for structural bone repair. Journal of Materials Science, 2017, 52, 9039-9054.	3.7	23
74	Heterotopic Ossification After 2-Incision Total Hip Arthroplasty. Journal of Arthroplasty, 2010, 25, 538-540.	3.1	22
75	Silicon nitride laser cladding: A feasible technique to improve the biological response of zirconia. Materials and Design, 2020, 191, 108649.	7.0	22
76	Surgeon Demographics and Medical Malpractice in Adult Reconstruction. Clinical Orthopaedics and Related Research, 2009, 467, 358-366.	1.5	21
77	Proliferation and function of MC3T3-E1 cells on freeze-cast hydroxyapatite scaffolds with oriented pore architectures. Journal of Materials Science: Materials in Medicine, 2009, 20, 1159-1165.	3.6	20
78	In vitroantibacterial activity of oxide and non-oxide bioceramics for arthroplastic devices: II. Fourier transform infrared spectroscopy. Analyst, The, 2018, 143, 2128-2140.	3.5	20
79	The role of nitrogen off-stoichiometry in the osteogenic behavior of silicon nitride bioceramics. Materials Science and Engineering C, 2019, 105, 110053.	7.3	20
80	Silicon nitride: a potent solid-state bioceramic inactivator of ssRNA viruses. Scientific Reports, 2021, 11, 2977.	3.3	20
81	Muscle damage in minimally invasive total hip arthroplasty: MRI evidence that it is not significant. Instructional Course Lectures, 2008, 57, 223-9.	0.2	20
82	Characterization of Knee Meniscal Pathology: Correlation of Gross, Histologic, Biochemical, Molecular, and Radiographic Measures of Disease. Journal of Knee Surgery, 2015, 28, 175-182.	1.6	19
83	Long-term bone regeneration, mineralization and angiogenesis in rat calvarial defects implanted with strong porous bioactive glass (13â€“93) scaffolds. Journal of Non-Crystalline Solids, 2016, 432, 120-129.	3.1	19
84	The Reliability of Modern Alumina Bearings in Total Hip Arthroplasty. Seminars in Arthroplasty, 2006, 17, 113-119.	0.7	18
85	Bioactive Glass 13-93 as a Subchondral Substrate for Tissue-engineered Osteochondral Constructs: A Pilot Study. Clinical Orthopaedics and Related Research, 2011, 469, 2754-2763.	1.5	18
86	In Vitro versus In Vivo Phase Instability of Zirconia-Toughened Alumina Femoral Heads: A Critical Comparative Assessment. Materials, 2017, 10, 466.	2.9	18
87	Failure of a Metal-Reinforced Tibial Post in Total Knee Arthroplasty. Journal of Arthroplasty, 2007, 22, 464-467.	3.1	17
88	Ceramic Bearings in Total Knee Arthroplasty. Journal of Knee Surgery, 2010, 20, 261-270.	1.6	17
89	Reconciling in vivo and in vitro kinetics of the polymorphic transformation in zirconia-toughened alumina for hip joints: I. Phenomenology. Materials Science and Engineering C, 2017, 72, 252-258.	7.3	17
90	A single center retrospective clinical evaluation of anterior cervical discectomy and fusion comparing allograft spacers to silicon nitride cages. Journal of Spine Surgery, 2018, 4, 349-360.	1.2	17

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91	Early Stages of Calcium Phosphate Formation on Bioactive Borosilicate Glass in Aqueous Phosphate Solution. Journal of the American Ceramic Society, 2008, 91, 1528-1533.	3.8	16
92	Reconciling in vivo and in vitro kinetics of the polymorphic transformation in zirconia-toughened alumina for hip joints: II. Theory. Materials Science and Engineering C, 2017, 71, 446-451.	7.3	16
93	Reconciling in vivo and in vitro kinetics of the polymorphic transformation in zirconia-toughened alumina for hip joints: III. Molecular scale mechanisms. Materials Science and Engineering C, 2017, 71, 552-557.	7.3	16
94	A review of ceramic bearing materials in total joint arthroplasty. HIP International, 2007, 17, 21-30.	1.7	16
95	What to Disclose? Revisiting Informed Consent. Clinical Orthopaedics and Related Research, 2012, 470, 1346-1356.	1.5	15
96	Identification of Novel Synovial Fluid Biomarkers Associated with Meniscal Pathology. Journal of Knee Surgery, 2015, 29, 047-062.	1.6	15
97	Development of a SiYAlON glaze for improved osteoconductivity of implantable medical devices. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1084-1096.	3.4	15
98	Surface Functionalization of Polyethylene by Silicon Nitride Laser Cladding. Applied Sciences (Switzerland), 2020, 10, 2612.	2.5	15
99	Antifungal activity of polymethyl methacrylate/Si3N4 composites against Candida albicans. Acta Biomaterialia, 2021, 126, 259-276.	8.3	15
100	Biological response of human osteosarcoma cells to Si3N4-doped Bioglasses. Materials and Design, 2018, 159, 79-89.	7.0	14
101	Ceramic-on-ceramic versus ceramic-on-polyethylene bearings in total hip arthroplasty: Results of a multicenter prospective randomized study and update of modern ceramic total hip trials in the United States. HIP International, 2005, 15, 129-135.	1.7	13
102	Characterization of Meniscal Pathology Using Molecular and Proteomic Analyses. Journal of Knee Surgery, 2015, 28, 496-505.	1.6	12
103	Polyethylene wear in cases using femoral stems of similar geometry, but different metals, porous layer, and modularity. Journal of Arthroplasty, 1998, 13, 492-499.	3.1	11
104	Studies Presented in Poster Format at the Annual Meetings of the American Association of Hip and Knee Surgeons. Journal of Arthroplasty, 2007, 22, 17-20.	3.1	11
105	Clinical outcomes for lumbar fusion using silicon nitride versus other biomaterials. Journal of Spine Surgery, 2020, 6, 33-48.	1.2	11
106	Arthroscopic resection of a chondroblastoma in the knee. Arthroscopy - Journal of Arthroscopic and Related Surgery, 1995, 11, 216-219.	2.7	10
107	Ceramic-on-ceramic versus ceramic-on-polyethylene bearings in total hip arthroplasty: Results of a multicenter prospective randomized study and update of modern ceramic total hip trials in the United States. HIP International, 2005, 15, 129-135.	1.7	10
108	Septic Arthritis of the Hip in an Immune Competent Adult: The Significance of the Differential Diagnosis. Journal of the American Board of Family Medicine, 2007, 20, 307-309.	1.5	10

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109	Corporate Malfeasance, Off-Label Use, and Surgeon Liability. Clinical Orthopaedics and Related Research, 2013, 471, 4-8.	1.5	10
110	Medicolegal Sidebar: Informed Consent in the Information Age. Clinical Orthopaedics and Related Research, 2015, 473, 2757-2761.	1.5	10
111	Oxide ceramic femoral heads contribute to the oxidation of polyethylene liners in artificial hip joints. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 82, 168-182.	3.1	10
112	Hot pressing of graded ultrafine-grained alumina bioceramics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 386, 384-389.	5.6	10
113	Processing of grain-size functionally gradient bioceramics for implant applications. Journal of Materials Science: Materials in Medicine, 2004, 15, 191-197.	3.6	9
114	Bioglass functionalization of laser-patterned bioceramic surfaces and their enhanced bioactivity. Heliyon, 2018, 4, e01016.	3.2	9
115	Aluminaâ€“tantalum composite for femoral head applications in total hip arthroplasty. Materials Science and Engineering C, 2009, 29, 1935-1941.	7.3	8
116	In vitro testing of Al2O3â€“Nb composite for femoral head applications in total hip arthroplasty. Acta Biomaterialia, 2010, 6, 708-714.	8.3	8
117	Burst Strength of BIOLOXÂ®delta Femoral Heads and Its Dependence on Low-Temperature Environmental Degradation. Materials, 2020, 13, 350.	2.9	8
118	Two-year results of a double-blind multicenter randomized controlled non-inferiority trial of polyetheretherketone (PEEK) versus silicon nitride spinal fusion cages in patients with symptomatic degenerative lumbar disc disorders. Journal of Spine Surgery, 2020, 6, 523-540.	1.2	8
119	Periprosthetic femoral osteolysis around an uncemented nonmodular moore prosthesis. Journal of Arthroplasty, 1997, 12, 346-349.	3.1	7
120	Conversion of Bioactive Borosilicate Glass to Multilayered Hydroxyapatite in Dilute Phosphate Solution. Journal of the American Ceramic Society, 2007, 90, 070918221104004-???.	3.8	7
121	Off-Stoichiometric Reactions at the Cellâ€“Substrate Biomolecular Interface of Biomaterials: In Situ and Ex Situ Monitoring of Cell Proliferation, Differentiation, and Bone Tissue Formation. International Journal of Molecular Sciences, 2019, 20, 4080.	4.1	7
122	Clinical outcomes for anterior cervical discectomy and fusion with silicon nitride spine cages: a multicenter study. Journal of Spine Surgery, 2019, 5, 504-519.	1.2	7
123	Enhanced bioactivity of Si3N4 through trench-patterning and back-filling with BioglassÂ®. Materials Science and Engineering C, 2020, 106, 110278.	7.3	7
124	SiC nanoparticle-reinforced Al2O3â€“Nb composite as a potential femoral head material in total hip arthroplasty. Materials Science and Engineering C, 2010, 30, 1197-1203.	7.3	6
125	The Relationship of the Canine Femoral Head to the Femoral Neck: An Anatomic Study with Relevance for Hip Arthroplasty Implant Design and Implantation. Veterinary Surgery, 2012, 41, 86-93.	1.0	6
126	Novel Technique: Knee Arthrodesis Using Trabecular Metal Cones with Intramedullary Nailing and Intramedullary Autograft. Journal of Knee Surgery, 2016, 29, 510-515.	1.6	6

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127	Osteogenic Enhancement of Zirconia-Toughened Alumina with Silicon Nitride and BioglassÂ®. Ceramics, 2019, 2, 554-567.	2.6	6
128	Biological responses to silicon and nitrogen-rich PVD silicon nitride coatings. Materials Today Chemistry, 2021, 19, 100404.	3.5	6
129	Surface functionalization of PEEK with silicon nitride. Biomedical Materials (Bristol), 2021, 16, 015015.	3.3	6
130	Effects of Low-Temperature Hydrogen Peroxide Gas Plasma Sterilization on In Vitro Cytotoxicity of Poly(Ïµ -Caprolactone) (PCL). Journal of Biomaterials Science, Polymer Edition, 2012, 23, 2197-2206.	3.5	5
131	Medicolegal Sidebar: The Law and Social Values: Loss of Chance. Clinical Orthopaedics and Related Research, 2014, 472, 2923-2926.	1.5	5
132	KUSA-A1 mesenchymal stem cells response to PEEK-Si3N4 composites. Materials Today Chemistry, 2020, 17, 100316.	3.5	5
133	Making the Case for Anterior Total Hip Arthroplasty. Seminars in Arthroplasty, 2012, 23, 149-154.	0.7	4
134	Clinical Faceoff: Anterior Total Hip Versus Mini-Posterior: Which One is Better?. Clinical Orthopaedics and Related Research, 2015, 473, 1192-1196.	1.5	4
135	Rethinking the Standard of Care in Treating Professional Athletes. Clinics in Sports Medicine, 2016, 35, 269-274.	1.8	4
136	In toto microscopic scanning of ZTA femoral head retrievals using CAD-assisted confocal Raman spectroscopy. Materials and Design, 2017, 116, 631-637.	7.0	4
137	Understanding Silicon Nitrideâ€™s Biological Properties: From Inert to Bioactive Ceramic. Key Engineering Materials, 0, 782, 289-296.	0.4	4
138	Primary Total Knee Arthroplasty Performed With a Minimally Invasive Surgery Subvastus Approach. Techniques in Knee Surgery, 2007, 6, 60-67.	0.1	3
139	Medicolegal Sidebar: State Medical Boards and Physician Disciplinary Actions. Clinical Orthopaedics and Related Research, 2014, 472, 28-31.	1.5	3
140	Medicolegal Sidebar: The Law and Social Values: Res Ipsa Loquitur. Clinical Orthopaedics and Related Research, 2015, 473, 23-26.	1.5	3
141	The Law and Social Values: Medical Necessity and Criminal Prosecution. Clinical Orthopaedics and Related Research, 2016, 474, 887-891.	1.5	3
142	Antimicrobial Nitric Oxide Releasing Compounds and Scaffolds. , 2020, , 105-137.		3
143	From Two Incisions to One: The Technique of Minimally Invasive Total Hip Arthroplasty with the Anterior Approach. Seminars in Arthroplasty, 2008, 19, 215-224.	0.7	2
144	Medical malpractice and arthroplasty surgery. Current Orthopaedic Practice, 2009, 20, 20-24.	0.2	2

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145	Alumina Ceramic Bearings in Total Hip Arthroplasty: The Rationale for Patient Selection. Seminars in Arthroplasty, 2011, 22, 254-257.	0.7	2
146	Care of the Professional Athlete: What Standard of Care?. Clinical Orthopaedics and Related Research, 2013, 471, 2060-2064.	1.5	2
147	Medicolegal Sidebar: Corporate Relationships and Increased Surgeon Liability Risk. Clinical Orthopaedics and Related Research, 2013, 471, 1092-1096.	1.5	2
148	Physician Competence and Skill Part I: The Role of Hospital Corporate Liability. Clinical Orthopaedics and Related Research, 2014, 472, 1089-1092.	1.5	2
149	Medicolegal Sidebar: Physician Competence and Skill Part II: Hospital Corporate Responsibility and New Technologies. Clinical Orthopaedics and Related Research, 2014, 472, 2023-2027.	1.5	2
150	The Law and Social Values: Prescription Pain Killers. Clinical Orthopaedics and Related Research, 2016, 474, 1924-1929.	1.5	2
151	Medicolegal Sidebar: Resident Physician Liability. Clinical Orthopaedics and Related Research, 2017, 475, 1963-1965.	1.5	2
152	Medicolegal Sidebar: Unnecessary Medical Care and Physician Liability. Clinical Orthopaedics and Related Research, 2018, 476, 2322-2324.	1.5	2
153	Transforaminal lumbar interbody fusion with a silicon nitride cage demonstrates early radiographic fusion. Journal of Spine Surgery, 2022, 8, 29-43.	1.2	2
154	A Modified Two-Incision Technique for Primary Total Hip Replacement. Seminars in Arthroplasty, 2005, 16, 198-207.	0.7	1
155	Evolution and Experience with Minimally Invasive Anterior Total Hip Arthroplasty Performed on an Orthopedic Table. Seminars in Arthroplasty, 2008, 19, 209-214.	0.7	1
156	A Wake-up Call on the Hazards of Regulatory Mandates in Orthopaedic Surgery. Journal of Bone and Joint Surgery - Series A, 2012, 94, e116.	3.0	1
157	The Judgment Defense in Medical Malpractice. Clinical Orthopaedics and Related Research, 2013, 471, 3405-3408.	1.5	1
158	Chapter 8: Nano-Bioceramics as Coatings for Orthopedic Implants and Scaffolds for Bone Regeneration. Frontiers in Nanobiomedical Research, 2014, , 343-391.	0.1	1
159	Medicolegal Sidebar: (Mis)Informed Consent in Medical Negligence Lawsuits. Clinical Orthopaedics and Related Research, 2017, 475, 2643-2646.	1.5	1
160	Macromol. Biosci. 6/2018. Macromolecular Bioscience, 2018, 18, 1870016.	4.1	1
161	A method for removing the polyethylene liner during revision total hip arthroplasty. American Journal of Orthopedics, 2006, 35, 242-3.	0.7	1
162	Femoral Component Removal. , 2009, , 296-303.		0

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163	Clinical Risk and Judicial Reasoning: Editorial Comment. Clinical Orthopaedics and Related Research, 2009, 467, 323-324.	1.5	0
164	Medical-legal issue. Current Orthopaedic Practice, 2011, 22, 227-230.	0.2	0
165	Evolving Medicolegal Concepts: Editorial Comment. Clinical Orthopaedics and Related Research, 2012, 470, 1344-1345.	1.5	0
166	Medicolegal Sidebar: The Law and Social Values: Conformity to Norms. Clinical Orthopaedics and Related Research, 2015, 473, 1555-1559.	1.5	0
167	Reply to the Letter to the Editor: Medicolegal Sidebar: Informed Consent in the Information Age. Clinical Orthopaedics and Related Research, 2016, 474, 862-862.	1.5	0
168	Medicolegal Sidebar: Expanding Hospital Liabilityâ€"The Concept of Willful Blindness. Clinical Orthopaedics and Related Research, 2017, 475, 1315-1318.	1.5	0
169	The Law and Social Values: Medical Uncertainty. Clinical Orthopaedics and Related Research, 2017, 475, 27-30.	1.5	0
170	Medicolegal Sidebar: Alcohol Abuseâ€"Patient Safety versus Surgeon Privacy. Clinical Orthopaedics and Related Research, 2019, 477, 498-500.	1.5	0
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