Besim Ben-Nissan

List of Publications by Year
in descending order

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Version: 2024-02-01

112	1,793	257450	345221
papers	citations	24 h-index	36 g-index

120	120	120	2140
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Critical ageing of hydroxyapatite solâ€“gel solutions. Biomaterials, 1998, 19, 2291-2296.	11.4	100
2	Sol-gel production of bioactive nanocoatings for medical applications. Part 1: an introduction. Nanomedicine, 2006, 1, 311-319.	3.3	96
3	Sol-gel production of bioactive nanocoatings for medical applications. Part II: current research and development. Nanomedicine, 2007, 2, 51-61.	3.3	82
4	Formation and Characterization of an Aqueous Zirconium Hydroxide Colloid. Chemistry of Materials, 2002, 14, 4313-4319.	6.7	81
5	Drug Delivery From Polymer-Based Nanopharmaceuticalsâ€”An Experimental Study Complemented by Simulations of Selected Diffusion Processes. Frontiers in Bioengineering and Biotechnology, 2019, 7, 37.	4.1	54
6	Development of carbon nanotube-reinforced hydroxyapatite bioceramics. Physica B: Condensed Matter, 2006, 385-386, 496-498.	2.7	47
7	Marine Structure Derived Calcium Phosphateâ€“Polymer Biocomposites for Local Antibiotic Delivery. Marine Drugs, 2015, 13, 666-680.	4.6	45
8	A review: Recent advances in solâ€gelâ€derived hydroxyapatite nanocoatings for clinical applications. Journal of the American Ceramic Society, 2020, 103, 5442-5453.	3.8	42
9	Sol-Gel Derived Hydroxylapatite Coatings for Biomedical Applications. Materials and Manufacturing Processes, 1995, 10, 205-216.	4.7	39
10	The dependence of structural and mechanical properties on film thickness in sol-gel zirconia films. Journal of Materials Research, 1998, 13, 388-395.	2.6	39
11	Natural and Synthetic Coral Biomineralization for Human Bone Revitalization. Trends in Biotechnology, 2017, 35, 43-54.	9.3	39
12	Controlled Release of Simvastatin from Biomimetic Î²-TCP Drug Delivery System. PLoS ONE, 2013, 8, e54676.	2.5	37
13	A Therapeutic Potential for Marine Skeletal Proteins in Bone Regeneration. Marine Drugs, 2013, 11, 1203-1220.	4.6	36
14	Mechanical properties of inorganic biomedical thin films and their corresponding testing methods. Surface and Coatings Technology, 2013, 233, 39-48.	4.8	36
15	Bioresorbable zinc hydroxyapatite guided bone regeneration membrane for bone regeneration. Clinical Oral Implants Research, 2016, 27, 354-360.	4.5	35
16	Multilayer sol-gel zirconia coatings on 316 stainless steel. Surface and Coatings Technology, 1996, 86-87, 153-158.	4.8	34
17	Bone Regeneration of Rat Tibial Defect by Zinc-Tricalcium Phosphate (Zn-TCP) Synthesized from Porous Foraminifera Carbonate Macrospheres. Marine Drugs, 2013, 11, 5148-5158.	4.6	34
18	Biocompatibility of a new biodegradable polymer-hydroxyapatite composite for biomedical applications. Journal of Drug Delivery Science and Technology, 2017, 38, 72-77.	3.0	34

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19	Targeting and Dissolution Characteristics of Bone Forming and Antibacterial Drugs by Harnessing the Structure of Microspherical Shells from Coral Beach Sand. Advanced Engineering Materials, 2011, 13, 93-99.	3.5	30
20	Calcium phosphate nanocoatings and nanocomposites, part 2: thin films for slow drug delivery and osteomyelitis. Nanomedicine, 2016, 11, 531-544.	3.3	26
21	Marine Skeletons: Towards Hard Tissue Repair and Regeneration. Marine Drugs, 2018, 16, 225.	4.6	26
22	The Therapeutic Effect on Bone Mineral Formation from Biomimetic Zinc Containing Tricalcium Phosphate (ZnTCP) in Zinc-Deficient Osteoporotic Mice. PLoS ONE, 2013, 8, e71821.	2.5	25
23	Calcium phosphate nanocoatings and nanocomposites, part I: recent developments and advancements in tissue engineering and bioimaging. Nanomedicine, 2015, 10, 2249-2261.	3.3	25
24	Mechanical testing of antimicrobial biocomposite coating on metallic medical implants as drug delivery system. Materials Science and Engineering C, 2019, 104, 109757.	7.3	25
25	Bioceramics: Processing Routes and Mechanical Evaluation.. Journal of the Ceramic Society of Japan, 2002, 110, 601-608.	1.3	24
26	The effectiveness of the controlled release of simvastatin from Î²-TCP macrosphere in the treatment of OVX mice. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, E195-E203.	2.7	24
27	Antibiotic delivery potential of nano- and micro-porous marine structure-derived Î²-tricalcium phosphate spheres for medical applications. Nanomedicine, 2014, 9, 1131-1139.	3.3	23
28	Effect of biomimetic zinc-containing tricalcium phosphate (Zn-TCP) on the growth and osteogenic differentiation of mesenchymal stem cells. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 852-858.	2.7	23
29	Effect of carbon dioxide on self-setting apatite cement formation from tetracalcium phosphate and dicalcium phosphate dihydrate; ATR-IR and chemoinformatics analysis. Colloid and Polymer Science, 2015, 293, 2781-2788.	2.1	23
30	Adult stem cell coatings for regenerative medicine. Materials Today, 2012, 15, 60-66.	14.2	22
31	The morphology and structure of solâ€“gel derived zirconia films on stainless steel. Thin Solid Films, 1997, 311, 196-206.	1.8	21
32	Finite-element modeling and analysis in nanomedicine and dentistry. Nanomedicine, 2014, 9, 1681-1695.	3.3	20
33	In vitro bioactivity and stem cells attachment of three-dimensionally ordered macroporous bioactive glass incorporating iron oxides. Journal of Non-Crystalline Solids, 2016, 452, 62-73.	3.1	20
34	Functionalisation of Ti6Al4V and hydroxyapatite surfaces with combined peptides based on KKLPDA and EEEEEEEE peptides. Colloids and Surfaces B: Biointerfaces, 2017, 160, 154-160.	5.0	20
35	Development of Carbon Nanotube Reinforced Hydroxyapatite Bioceramics. Key Engineering Materials, 2006, 309-311, 597-602.	0.4	18
36	Finite element stress analysis of Ti-6Al-4V and partially stabilized zirconia dental implant during clenching. Acta Odontologica Scandinavica, 2012, 70, 353-361.	1.6	18

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37	Antibiotic Containing Poly Lactic Acid/Hydroxyapatite Biocomposite Coatings for Dental Implant Applications. Key Engineering Materials, 0, 758, 120-125.	0.4	18
38	Improvement of Elongation in Nanosurface Modified Bioglass/PLA Thin Film Composites. Current Nanoscience, 2014, 10, 200-204.	1.2	17
39	Development of antimicrobial composite coatings for drug release in dental, orthopaedic and neural prostheses applications. SN Applied Sciences, 2019, 1, 1.	2.9	16
40	Nanobiomaterial Coatings in Dentistry. Frontiers of Oral Biology, 2015, 17, 49-61.	1.5	16
41	Development and dissolution studies of bisphosphonate (clodronate)-containing hydroxyapatite-polylactic acid biocomposites for slow drug delivery. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 1723-1731.	2.7	15
42	Production of the novel fibrous structure of poly(Îµ-caprolactone)/tri-calcium phosphate/hexagonal boron nitride composites for bone tissue engineering. Journal of the Australian Ceramic Society, 2018, 54, 251-260.	1.9	15
43	Biomechanics and functional distortion of the human mandible. Journal of Investigative and Clinical Dentistry, 2015, 6, 241-251.	1.8	14
44	Introduction to Synthetic and Biologic Apatites. Springer Series in Biomaterials Science and Engineering, 2014, , 1-17.	1.0	14
45	Micro- and Nano-Indentation of a Hydroxyapatite-Carbon Nanotube Composite. Journal of Nanoscience and Nanotechnology, 2008, 8, 3936-3941.	0.9	13
46	Nano Calcium Phosphate Powder Production through Chemical Agitation from Atlantic Deer Cowrie Shells (<i>Cypraea cervus Linnaeus</i>). Key Engineering Materials, 0, 587, 80-85.	0.4	13
47	Coral Exoskeletons as a Precursor Material for the Development of a Calcium Phosphate Drug Delivery System for Bone Tissue Engineering. Biological and Pharmaceutical Bulletin, 2013, 36, 1662-1665.	1.4	13
48	Temperature Effects on a Hydroxyapatite Precursor Solution. Journal of Physical Chemistry B, 2004, 108, 5516-5521.	2.6	12
49	Human Bone Derived Cell (HBDC) Behaviour of Sol-Gel Derived Carbonate Hydroxyapatite Coatings on Titanium Alloy Substrates. Key Engineering Materials, 2005, 284-286, 541-544.	0.4	12
50	Simvastatinâ€Loaded Î²â€TCP Drug Delivery System Induces Bone Formation and Prevents Rhabdomyolysis in OVX Mice. Advanced Healthcare Materials, 2013, 2, 678-681.	7.6	12
51	Surface modifications of titanium alloy using nanobioceramic-based coatings to improve osseointegration: a review. Materials Technology, 2020, 35, 742-751.	3.0	12
52	Bone regeneration of calvarial defect using marine calcareous-derived beta-tricalcium phosphate macrospheres. Journal of Tissue Engineering, 2014, 5, 204173141452344.	5.5	11
53	Effects of micromovement on the changes in stress distribution of partially stabilized zirconia (PS-ZrO₂) dental implants and bridge during clenching: A three-dimensional finite element analysis. Acta Odontologica Scandinavica, 2013, 71, 72-81.	1.6	10
54	Hydroxyapatite/PLA Biocomposite Thin Films for Slow Drug Delivery of Antibiotics for the Treatment of Bone and Implant-Related Infections. Key Engineering Materials, 0, 696, 271-276.	0.4	10

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55	The natural nano-bioceramic powder production from organ pipe red coral (Tubipora musica) by a simple chemical conversion method. Journal of the Australian Ceramic Society, 2018, 54, 317-329.	1.9	10
56	Marine Structures as Templates for Biomaterials. Springer Series in Biomaterials Science and Engineering, 2014, , 391-414.	1.0	10
57	Advances in Calcium Phosphate Nanocoatings and Nanocomposites. Springer Series in Biomaterials Science and Engineering, 2014, , 485-509.	1.0	10
58	Micro-Spectrometric Investigations of Inorganic Components of the Black Corals for Biomedical Applications. Key Engineering Materials, 2005, 284-286, 297-300.	0.4	9
59	Three-Dimensional Implant Positioning with a Piezosurgery Implant Site Preparation Technique and an Intraoral Surgical Navigation System: Case Report. International Journal of Oral and Maxillofacial Implants, 2017, 32, e163-e165.	1.4	9
60	Conversion of Calcified Algae (<i>Halimeda </i>sp) and Hard Coral (<i>Porites) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542	0.4	8
61	Synthesis and cytotoxicity analysis of porous Î²-TCP/starch bioceramics. Journal of the Australian Ceramic Society, 2022, 58, 487-494.	1.9	7
62	Comparison of Surface Morphology in Sol-Gel Treated Coralline Hydroxyapatite Structures for Implant Purposes. Key Engineering Materials, 2001, 192-195, 959-962.	0.4	6
63	Adhesion of Sol-Gel Derived Zirconia Nano-Coatings on Surface Treated Titanium. Key Engineering Materials, 2004, 254-256, 455-458.	0.4	6
64	Morphological Stability of Plate-Like Hydroxyapatite. Key Engineering Materials, 2003, 240-242, 481-484.	0.4	6
65	Neutron Characterisation of Hydroxyapatite Bioceramics. Key Engineering Materials, 2006, 309-311, 61-64.	0.4	6
66	Adhesion and Scratch Testing of Antibiotic Loaded Poly-Lactic Acid Biocomposite Thin Films on Metallic Implants. Key Engineering Materials, 0, 782, 195-200.	0.4	6
67	Comparative Analysis of NF-Î°B in the MyD88-Mediated Pathway After Implantation of Titanium Alloy and Stainless Steel and the Role of Regulatory T Cells. World Neurosurgery, 2020, 144, e138-e148.	1.3	6
68	The synthesis of hydroxyapatite from artificially grown Red Sea hydrozoan coral for antimicrobacterial drug delivery system applications. Journal of the Australian Ceramic Society, 2021, 57, 399-407.	1.9	6
69	Thin Film Ceramic Coatings via the Sol-Gel Process. Key Engineering Materials, 1991, 53-55, 427-432.	0.4	5
70	Sol-Gel Derived Nano-Coated Coralline Hydroxyapatite for Load Bearing Applications. Key Engineering Materials, 2004, 254-256, 301-304.	0.4	5
71	Bio-Lubrication Phenomena affect Residual Stresses and Phases of Zirconia Implants. Key Engineering Materials, 2003, 240-242, 781-784.	0.4	5
72	Calcium Phosphate Nanocoatings: Production, Physical and Biological Properties, and Biomedical Applications. , 2017, , 105-149.		5

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73	Advances in Bioglass and Glass Ceramics for Biomedical Applications. Springer Series in Biomaterials Science and Engineering, 2017, , 133-161.	1.0	5
74	Hydrothermal Conversion and Sol-Gel Coating of Red Sea Coral. Key Engineering Materials, 2003, 240-242, 43-46.	0.4	4
75	A Comparative Study of Thai and Australian Crocodile Bone for Use as a Potential Biomaterial. Key Engineering Materials, 2006, 309-311, 15-18.	0.4	4
76	Changes in the Activity of Osteoblast Like Cells with Sol-Gel Derived Hydroxyapatite and Zirconia Nanocoatings. Key Engineering Materials, 2008, 361-363, 633-636.	0.4	4
77	Nano-Bioceramic Production via Mechano-Chemical Conversion (Ultrasonication). Key Engineering Materials, 0, 529-530, 609-614.	0.4	4
78	Kinetics and the Theoretical Aspects of Drug Release from PLA/HAp Thin Films. Key Engineering Materials, 0, 758, 113-119.	0.4	4
79	Bioceramics. , 2019, , 16-33.		4
80	Specifiable biomimetic microsponges for timed release of crystal entrapped biomolecules useful in bone repair. Journal of Materials Chemistry B, 2020, 8, 7143-7148.	5.8	4
81	Human Osteoclasts Behaviour on Sol-Gel Derived Carbonate Hydroxyapatite Coatings on Anodized Titanium Alloy Substrates. Key Engineering Materials, 2006, 309-311, 709-712.	0.4	3
82	Fracture Toughness of Nanoscale Hydroxyapatite Coatings on Titanium Substrates. Key Engineering Materials, 2006, 306-308, 1307-1312.	0.4	3
83	Adipose Stem Cell Coating of Biomimetic Î²-TCP Macrospheres by Use of Laboratory Centrifuge. BioResearch Open Access, 2013, 2, 67-71.	2.6	3
84	Biomimetics and Marine Materials in Drug Delivery and Tissue Engineering. , 2016, , 521-544.		3
85	Marine Derived Biomaterials for Bone Regeneration and Tissue Engineering: Learning from Nature. Springer Series in Biomaterials Science and Engineering, 2019, , 51-78.	1.0	3
86	Marine-Based Calcium Phosphates from Hard Coral and Calcified Algae for Biomedical Applications. Springer Series in Biomaterials Science and Engineering, 2019, , 137-153.	1.0	3
87	Modifying an Implant: A Mini-review of Dental Implant Biomaterials. BIO Integration, 2021, 2, .	1.3	3
88	Mechanical Properties and Characterisation of Sol-Gel Coated Coralline Hydroxyapatite. Key Engineering Materials, 2001, 218-220, 379-382.	0.4	2
89	Ligand Substitution and Complex Formation in Hydroxyapatite Sol-Gel System. Key Engineering Materials, 2001, 218-220, 79-84.	0.4	2
90	³¹P Solution State NMR Investigation of the Hydrolysis of a New Alkoxide Sol-Gel Hydroxyapatite. Key Engineering Materials, 2002, 218-220, 75-78.	0.4	2

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91	Finite Element Analysis of Ceramic Dental Implants Incorporated into the Human Mandible. Key Engineering Materials, 2003, 254-256, 707-712.	0.4	2
92	Does Size Matter? - The Effect of Volume on the Compressive Strength of Open Cell Brittle Ceramics. Advanced Materials Research, 2008, 41-42, 221-226.	0.3	2
93	Novel Bioceramic Production via Mechanochemical Conversion from Plate Limpet (<i>Tectura</i> <i>scutum</i>) - Shells. Key Engineering Materials, 0, 696, 45-50.	0.4	2
94	Nanostructured Calcium Phosphates for Drug, Gene, DNA and Protein Delivery and as Anticancer Chemotherapeutic Devices. , 2017, , 227-256.		2
95	Biomimetics: Bio-inspired Engineering of Human Tissue Scaffolding for Regenerative Medicine. , 2008, , .		2
96	Biomimetic Applications in Regenerative Medicine: Scaffolds, Transplantation Modules, Tissue Homing Devices and Stem Cells. , 2011, , 821-850.		2
97	BIOCERAMICS: AN INTRODUCTION. Biomaterials Engineering and Processing Series, 2004, , 6-1-6-36.	0.0	2
98	Finite Element Modelling of a Metal-Ceramic Interface. Key Engineering Materials, 1991, 53-55, 107-110.	0.4	1
99	Water-Lubrication Effects on Zirconia Debris Production in Hip-Joint Simulators. Key Engineering Materials, 2003, 240-242, 835-838.	0.4	1
100	TEMPLATE DIRECTED SYNTHESIS OF NANOSIZED BONE-LIKE APATITE. , 2004, , .		1
101	A New Role for Marine Skeletal Proteins in Regenerative Orthopaedics. Key Engineering Materials, 0, 529-530, 654-659.	0.4	1
102	Biomimetics and Marine Materials in Drug Delivery and Tissue Engineering: From Natural Role Models to Bone Regeneration. Key Engineering Materials, 0, 587, 229-232.	0.4	1
103	Femoral neck remodelling after hip resurfacing surgery: a radiological study. ANZ Journal of Surgery, 2014, 84, 639-642.	0.7	1
104	Multifunctional-Dual Drug Delivery Poly-Lactic Acid Biocomposite Coating with Hydroxyapatite for Bone Implants. Key Engineering Materials, 2018, 782, 212-217.	0.4	1
105	Marine-Based Biomaterials for Tissue Engineering Applications. Springer Series in Biomaterials Science and Engineering, 2019, , 99-111.	1.0	1
106	Integrated Finite Element and Reliability Analysis in Ceramic Design and Science. Key Engineering Materials, 1991, 53-55, 36-46.	0.4	0
107	Sol-Gel Precursor Chemistry. Key Engineering Materials, 1991, 53-55, 445-450.	0.4	0
108	The Controlled Release of Simvastatin from Biomimetic Macrospheres. Key Engineering Materials, 0, 529-530, 461-464.	0.4	0

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109	Biomimetics and Marine Materials in Drug Delivery and Tissue Engineering. , 2015, , 1-24.		0
110	Thoughts and Tribulations on Bioceramics and Marine Structures. Springer Series in Biomaterials Science and Engineering, 2019, , 1-25.	1.0	0
111	Production and Characterization of Calcium Phosphates from Marine Structures: The Fundamentals Basics. Springer Series in Biomaterials Science and Engineering, 2019, , 113-135.	1.0	0
112	Development and In Vitro Analysis of a New Biodegradable PLA/Hydroxyapatite (HAp) Composite for Biomedical Applications. , 2017, , 411-423.		0