

Adel M F Alhalawani

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4011387/publications.pdf>

Version: 2024-02-01

61
papers

1,173
citations

430874

18
h-index

414414

32
g-index

61
all docs

61
docs citations

61
times ranked

1493
citing authors

#	ARTICLE	IF	CITATIONS
1	Adhesion of bioactive glass-based adhesive to bone. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 126, 105018.	3.1	3
2	Tantalum-containing mesoporous bioactive glass powder for hemostasis. Journal of Biomaterials Applications, 2021, 35, 924-932.	2.4	13
3	Bone cement as a local chemotherapeutic drug delivery carrier in orthopedic oncology: A review. Journal of Bone Oncology, 2021, 26, 100345.	2.4	16
4	In vivo analysis of a proprietary glass-based adhesive for sternal fixation and stabilization using rabbit and sheep models. Journal of Materials Science: Materials in Medicine, 2021, 32, 53.	3.6	5
5	Tantalum-containing meso-porous glass fibres for hemostatic applications. Materials Today Communications, 2021, 27, 102260.	1.9	4
6	A Gallium-doped cement for the treatment of bone cancers. The effect of ZnO $\hat{+}$ Ga ₂ O ₃ substitution of an ionomeric glass series on the rheological, mechanical, pH and ion-eluting properties of their corresponding glass polyalkenoate cements. Materials Research Express, 2021, 8, 065401.	1.6	0
7	Comparative Evaluation of Two Glass Polyalkenoate Cements: An In Vivo Pilot Study Using a Sheep Model. Journal of Functional Biomaterials, 2021, 12, 44.	4.4	1
8	In vitro evaluation of novel titania-containing borate bioactive glass scaffolds. Journal of Biomedical Materials Research - Part A, 2021, 109, 146-158.	4.0	11
9	Effect of TiO ₂ doping on degradation rate, microstructure and strength of borate bioactive glass scaffolds. Materials Science and Engineering C, 2020, 107, 110351.	7.3	11
10	Calcium sulfate-containing glass polyalkenoate cement for revision total knee arthroplasty fixation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 3356-3369.	3.4	2
11	The Role of Poly(Methyl Methacrylate) in Management of Bone Loss and Infection in Revision Total Knee Arthroplasty: A Review. Journal of Functional Biomaterials, 2020, 11, 25.	4.4	17
12	A review of materials for managing bone loss in revision total knee arthroplasty. Materials Science and Engineering C, 2019, 104, 109941.	7.3	16
13	Measurement of Adhesion of Sternal Wires to a Novel Bioactive Glass-Based Adhesive. Journal of Functional Biomaterials, 2019, 10, 37.	4.4	7
14	The effect of tantalum incorporation on the physical and chemical properties of ternary silicon-calcium-phosphorous mesoporous bioactive glasses. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 2229-2237.	3.4	11
15	Bioactive glass fiber fabrication via a combination of sol-gel process with electro-spinning technique. Materials Science and Engineering C, 2019, 101, 521-538.	7.3	23
16	Novel adhesives for sternal fixation and stabilization: A biomechanical analysis. Clinical Biomechanics, 2019, 62, 66-71.	1.2	13
17	The effect of calcination rate on the structure of mesoporous bioactive glasses. Journal of Sol-Gel Science and Technology, 2019, 89, 426-435.	2.4	3
18	Novel adhesives for distal radius fixation: A biomechanical analysis. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 89, 99-106.	3.1	9

#	ARTICLE	IF	CITATIONS
19	Percutaneous upper extremity fracture fixation using a novel glass-based adhesive. <i>Journal of Orthopaedics</i> , 2018, 15, 67-69.	1.3	6
20	Injectable glass polyalkenoate cements: evaluation of their rheological and mechanical properties with and without the incorporation of lidocaine hydrochloride. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 027002.	1.2	1
21	A Preliminary Evaluation of the Ability of Keratotic Tissue to Act as a Prognostic Indicator of Hip Fracture Risk. <i>Clinical Medicine Insights: Arthritis and Musculoskeletal Disorders</i> , 2018, 11, 117954411775405.	1.2	3
22	The effect of Mg 2+ incorporation into the glass phase of zinc-based glass polyalkenoate cements. <i>Journal of Non-Crystalline Solids</i> , 2018, 483, 106-117.	3.1	6
23	The impact of gallium content on degradation, bioactivity, and antibacterial potency of zinc borate bioactive glass. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 367-376.	3.4	31
24	Development of a novel bioactive glass suitable for osteosarcoma-related bone grafts. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 1186-1193.	3.4	11
25	Rapidly-Dissolving Silver-Containing Bioactive Glasses for Cariostatic Applications. <i>Journal of Functional Biomaterials</i> , 2018, 9, 28.	4.4	11
26	Incorporating Germanium Oxide into the Glass Phase of Novel Zinc/Magnesium-Based GPCs Designed for Bone Void Filling: Evaluating Their Physical and Mechanical Properties. <i>Journal of Functional Biomaterials</i> , 2018, 9, 47.	4.4	4
27	Common treatments and procedures used for fractures of the distal radius and scaphoid: A review. <i>Materials Science and Engineering C</i> , 2017, 74, 422-433.	7.3	7
28	Characterization and fracture property of different strontium-containing borate-based glass coatings for Ti6Al4V substrates. <i>Journal of Non-Crystalline Solids</i> , 2017, 458, 69-75.	3.1	13
29	Titanium addition influences antibacterial activity of bioactive glass coatings on metallic implants. <i>Heliyon</i> , 2017, 3, e00420.	3.2	23
30	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
31	A novel tantalum-containing bioglass. Part II. Development of a bioadhesive for sternal fixation and repair. <i>Materials Science and Engineering C</i> , 2017, 71, 401-411.	7.3	33
32	A novel tantalum-containing bioglass. Part I. Structure and solubility. <i>Materials Science and Engineering C</i> , 2017, 72, 202-211.	7.3	23
33	An Injectable Glass Polyalkenoate Cement Engineered for Fracture Fixation and Stabilization. <i>Journal of Functional Biomaterials</i> , 2017, 8, 25.	4.4	13
34	Silica-Based and Borate-Based, Titania-Containing Bioactive Coatings Characterization: Critical Strain Energy Release Rate, Residual Stresses, Hardness, and Thermal Expansion. <i>Journal of Functional Biomaterials</i> , 2016, 7, 32.	4.4	15
35	Glass Polyalkenoate Cements Designed for Cranioplasty Applications: An Evaluation of Their Physical and Mechanical Properties. <i>Journal of Functional Biomaterials</i> , 2016, 7, 8.	4.4	7
36	The effect of ZnO \rightarrow Ta ₂ O ₅ substitution on the structural and thermal properties of SiO ₂ -ZnO-SrO-CaO-P ₂ O ₅ glasses. <i>Materials Characterization</i> , 2016, 114, 218-224.	4.4	22

#	ARTICLE	IF	CITATIONS
37	Materials and techniques used in cranioplasty fixation: A review. <i>Materials Science and Engineering C</i> , 2016, 66, 315-322.	7.3	72
38	Antibacterial and osteo-stimulatory effects of a borate-based glass series doped with strontium ions. <i>Journal of Biomaterials Applications</i> , 2016, 31, 674-683.	2.4	16
39	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
40	Raman Spectroscopic Analysis of Fingernail Clippings Can Help Differentiate between Postmenopausal Women who Have and Have Not Suffered a Fracture. <i>Clinical Medicine Insights: Arthritis and Musculoskeletal Disorders</i> , 2016, 9, CMAMD.S38493.	1.2	10
41	<i>In vivo</i> detection of monosodium urate crystal deposits by Raman spectroscopy—a pilot study: Table 1. <i>Rheumatology</i> , 2016, 55, 379-380.	1.9	11
42	Antibacterial properties of poly (octanediol citrate)/gallium-containing bioglass composite scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 18.	3.6	25
43	Characterization of silica-based and borate-based, titanium-containing bioactive glasses for coating metallic implants. <i>Journal of Non-Crystalline Solids</i> , 2016, 433, 95-102.	3.1	33
44	Inorganic hemostats: The state-of-the-art and recent advances. <i>Materials Science and Engineering C</i> , 2016, 58, 1255-1268.	7.3	124
45	The role of poly(acrylic acid) in conventional glass polyalkenoate cements. <i>Journal of Polymer Engineering</i> , 2016, 36, 221-237.	1.4	29
46	Effect of Nitrogen on Properties of Na ₂ O–CaO–SrO–ZnO–SiO ₂ Glasses. <i>Journal of the American Ceramic Society</i> , 2015, 98, 748-757.	3.8	4
47	Raman Spectroscopy Applied to the Noninvasive Detection of Monosodium Urate Crystal Deposits. <i>Clinical Medicine Insights: Arthritis and Musculoskeletal Disorders</i> , 2015, 8, CMAMD.S29061.	1.2	8
48	Comparative study of Weibull characteristic strength and mean strength of GPCs to confirm the minimum number of samples needed for confident strength reporting. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 43, 53-58.	3.1	4
49	Fabrication and characterization of poly(octanediol citrate)/gallium-containing bioglass microcomposite scaffolds. <i>Journal of Materials Science</i> , 2015, 50, 2189-2201.	3.7	28
50	Investigating the addition of SiO ₂ –CaO–ZnO–Na ₂ O–TiO ₂ bioactive glass to hydroxyapatite: Characterization, mechanical properties and bioactivity. <i>Journal of Biomaterials Applications</i> , 2015, 30, 495-511.	2.4	3
51	Silver Nanoparticle Coated Bioactive Glasses - Composites with Dex/CMC Hydrogels: Characterization, Solubility, and In Vitro Biological Studies. <i>Macromolecular Bioscience</i> , 2015, 15, 1146-1158.	4.1	9
52	A glass polyalkenoate cement carrier for bone morphogenetic proteins. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 151.	3.6	1
53	Bioactive glass reinforced elastomer composites for skeletal regeneration: A review. <i>Materials Science and Engineering C</i> , 2015, 53, 175-188.	7.3	73
54	Drug-eluting cements for hard tissue repair: A comparative study using vancomycin and RNPA1000 to inhibit growth of <i>Staphylococcus aureus</i> . <i>Journal of Biomaterials Applications</i> , 2014, 28, 1235-1246.	2.4	6

#	ARTICLE	IF	CITATIONS
55	Influence of gallium on the surface properties of zinc based glass polyalkenoate cements. <i>Materials Chemistry and Physics</i> , 2014, 147, 360-364.	4.0	4
56	A review of sternal closure techniques. <i>Journal of Biomaterials Applications</i> , 2013, 28, 483-497.	2.4	55
57	Preliminary Investigation of the Dissolution Behavior, Cytocompatibility, Effects of Fibrinogen Conformation and Platelet Adhesion for Radiopaque Embolic Particles. <i>Journal of Functional Biomaterials</i> , 2013, 4, 89-113.	4.4	3
58	A Novel Glass Polyalkenoate Cement for Fixation and Stabilisation of the Ribcage, Post Sternotomy Surgery: An ex-Vivo Study. <i>Journal of Functional Biomaterials</i> , 2013, 4, 329-357.	4.4	17
59	Evaluation of two novel aluminum-free, zinc-based glass polyalkenoate cements as alternatives to PMMA bone cement for use in vertebroplasty and balloon kyphoplasty. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 59-66.	3.6	23
60	Mechanical properties of hydroxyapatite/zirconia compacts sintered by two different sintering methods. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 1109-1120.	3.6	62
61	The role of Sr ²⁺ on the structure and reactivity of SrO-CaO-ZnO-SiO ₂ ionomer glasses. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 953-957.	3.6	49