

George E Stan

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96
papers

1,869
citations

26
h-index

38
g-index

106
ext. papers

2,299
ext. citations

4.7
avg, IF

4.75
L-index

#	Paper	IF	Citations
96	Cationic Substitutions in Hydroxyapatite: Current Status of the Derived Biofunctional Effects and Their In Vitro Interrogation Methods. <i>Materials</i> , 2018 , 11,	3.5	114
95	Progress in Hydroxyapatite Starch Based Sustainable Biomaterials for Biomedical Bone Substitution Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 8491-8512	8.3	104
94	Bioactive Glasses and Glass-Ceramics for Healthcare Applications in Bone Regeneration and Tissue Engineering. <i>Materials</i> , 2018 , 11,	3.5	101
93	Differentiation of mesenchymal stem cells onto highly adherent radio frequency-sputtered carbonated hydroxylapatite thin films. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 95, 1203-1214	5.4	67
92	Novel doped hydroxyapatite thin films obtained by pulsed laser deposition. <i>Applied Surface Science</i> , 2013 , 265, 41-49	6.7	60
91	Antifungal activity of Ag:hydroxyapatite thin films synthesized by pulsed laser deposition on Ti and Ti modified by TiO ₂ nanotubes substrates. <i>Applied Surface Science</i> , 2014 , 293, 37-45	6.7	55
90	Bioglass implant-coating interactions in synthetic physiological fluids with varying degrees of biomimicry. <i>International Journal of Nanomedicine</i> , 2017 , 12, 683-707	7.3	50
89	Comparative physical, chemical and biological assessment of simple and titanium-doped ovine dentine-derived hydroxyapatite coatings fabricated by pulsed laser deposition. <i>Applied Surface Science</i> , 2017 , 413, 129-139	6.7	46
88	Double layer structure of ZnO thin films deposited by RF-magnetron sputtering on glass substrate. <i>Applied Surface Science</i> , 2012 , 258, 8819-8824	6.7	42
87	Strong bonding between sputtered bioglass/ceramic films and Ti-substrate implants induced by atomic inter-diffusion post-deposition heat-treatments. <i>Applied Surface Science</i> , 2013 , 280, 530-538	6.7	40
86	Structural and biological evaluation of lignin addition to simple and silver-doped hydroxyapatite thin films synthesized by matrix-assisted pulsed laser evaporation. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 5333	4.5	39
85	Synthesis, Characterization, and Antimicrobial Activity of Magnesium-Doped Hydroxyapatite Suspensions. <i>Nanomaterials</i> , 2019 , 9,	5.4	37
84	Structural, compositional, mechanical characterization and biological assessment of bovine-derived hydroxyapatite coatings reinforced with MgF ₂ or MgO for implants functionalization. <i>Materials Science and Engineering C</i> , 2016 , 59, 863-874	8.3	37
83	Effect of annealing upon the structure and adhesion properties of sputtered bio-glass/titanium coatings. <i>Applied Surface Science</i> , 2009 , 255, 9132-9138	6.7	37
82	Characterization of PLD grown WO ₃ thin films for gas sensing. <i>Applied Surface Science</i> , 2017 , 417, 218-227	3.7	34
81	Hydroxyapatite thin films synthesized by pulsed laser deposition and magnetron sputtering on PMMA substrates for medical applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010 , 169, 159-168	3.1	34
80	Highly adherent bioactive glass thin films synthesized by magnetron sputtering at low temperature. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 2693-710	4.5	33

79	Bioactive glass thin films deposited by magnetron sputtering technique: The role of working pressure. <i>Applied Surface Science</i> , 2010 , 256, 7102-7110	6.7	31
78	Biomimetic nanocrystalline apatite coatings synthesized by Matrix Assisted Pulsed Laser Evaporation for medical applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014 , 181, 56-63	3.1	29
77	Structural and optical properties of c-axis oriented aluminum nitride thin films prepared at low temperature by reactive radio-frequency magnetron sputtering. <i>Thin Solid Films</i> , 2012 , 524, 328-333	2.2	29
76	Superior biofunctionality of dental implant fixtures uniformly coated with durable bioglass films by magnetron sputtering. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 51, 313-27	4.1	28
75	Synthesis and Characterization of Jellified Composites from Bovine Bone-Derived Hydroxyapatite and Starch as Precursors for Robocasting. <i>ACS Omega</i> , 2018 , 3, 1338-1349	3.9	27
74	Nanomechanical characterization of bioglass films synthesized by magnetron sputtering. <i>Thin Solid Films</i> , 2014 , 553, 166-172	2.2	27
73	Physical-chemical characterization and biological assessment of simple and lithium-doped biological-derived hydroxyapatite thin films for a new generation of metallic implants. <i>Applied Surface Science</i> , 2018 , 439, 724-735	6.7	26
72	Radical modification of the wetting behavior of textiles coated with ZnO thin films and nanoparticles when changing the ambient pressure in the pulsed laser deposition process. <i>Journal of Applied Physics</i> , 2011 , 110, 064321	2.5	26
71	On the bioactivity of adherent bioglass thin films synthesized by magnetron sputtering techniques. <i>Thin Solid Films</i> , 2010 , 518, 5955-5964	2.2	26
70	The Role of Ambient Gas and Pressure on the Structuring of Hard Diamond-Like Carbon Films Synthesized by Pulsed Laser Deposition. <i>Materials</i> , 2015 , 8, 3284-3305	3.5	25
69	Biomineralization capability of adherent bio-glass films prepared by magnetron sputtering. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 1047-55	4.5	25
68	Electric and pyroelectric properties of AlN thin films deposited by reactive magnetron sputtering on Si substrate. <i>Applied Surface Science</i> , 2015 , 353, 1195-1202	6.7	24
67	Fabrication of antimicrobial silver-doped carbon structures by combinatorial pulsed laser deposition. <i>International Journal of Pharmaceutics</i> , 2016 , 515, 592-606	6.5	24
66	Submicrometer Hollow Bioglass Cones Deposited by Radio Frequency Magnetron Sputtering: Formation Mechanism, Properties, and Prospective Biomedical Applications. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4357-67	9.5	22
65	Mechanical, Corrosion and Biological Properties of Room-Temperature Sputtered Aluminum Nitride Films with Dissimilar Nanostructure. <i>Nanomaterials</i> , 2017 , 7,	5.4	22
64	Influence of the modulated two-step synthesis of biogenic hydroxyapatite on biomimetic products surface. <i>Applied Surface Science</i> , 2018 , 438, 147-157	6.7	22
63	AlN on silicon based surface acoustic wave resonators operating at 5 GHz. <i>Electronics Letters</i> , 2009 , 45, 1196	1.1	20
62	New bio-active, antimicrobial and adherent coatings of nanostructured carbon double-reinforced with silver and silicon by Matrix-Assisted Pulsed Laser Evaporation for medical applications. <i>Applied Surface Science</i> , 2018 , 441, 871-883	6.7	19

61	Physical properties of Al _x In _{1-x} N thin film alloys sputtered at low temperature. <i>Journal of Applied Physics</i> , 2014 , 116, 153509	2.5	18
60	The bioactivity mechanism of magnetron sputtered bioglass thin films. <i>Applied Surface Science</i> , 2012 , 258, 9840-9848	6.7	18
59	Adhesion evaluation of different bioceramic coatings on MgCa alloys for biomedical applications. <i>Journal of Adhesion Science and Technology</i> , 2016 , 30, 1968-1983	2	18
58	Antibacterial efficiency of alkali-free bio-glasses incorporating ZnO and/or SrO as therapeutic agents. <i>Ceramics International</i> , 2019 , 45, 4368-4380	5.1	18
57	Direct Immobilization of Biomolecules through Magnetic Forces on Ni Electrodes via Ni Nanoparticles: Applications in Electrochemical Biosensors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19867-19877	9.5	17
56	Combinatorial MAPLE deposition of antimicrobial orthopedic maps fabricated from chitosan and biomimetic apatite powders. <i>International Journal of Pharmaceutics</i> , 2016 , 511, 505-515	6.5	17
55	Naturally-Derived Biphasic Calcium Phosphates through Increased Phosphorus-Based Reagent Amounts for Biomedical Applications. <i>Materials</i> , 2019 , 12,	3.5	16
54	Comprehensive In Vitro Testing of Calcium Phosphate-Based Bioceramics with Orthopedic and Dentistry Applications. <i>Materials</i> , 2019 , 12,	3.5	16
53	. <i>IEEE Journal of the Electron Devices Society</i> , 2019 , 7, 268-275	2.3	15
52	Multi-layer haemocompatible diamond-like carbon coatings obtained by combined radio frequency plasma enhanced chemical vapor deposition and magnetron sputtering. <i>Journal of Materials Science: Materials in Medicine</i> , 2013 , 24, 2695-707	4.5	15
51	Structural investigations of Ge nanoparticles embedded in an amorphous SiO ₂ matrix. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 221-232	2.3	15
50	Transparent field-effect transistors based on AlN-gate dielectric and IGZO-channel semiconductor. <i>Applied Surface Science</i> , 2016 , 379, 270-276	6.7	15
49	Thickness Influence on Biocompatibility of Titanium Nitride Thin Films Synthesized by Pulsed Laser Deposition. <i>Materials</i> , 2016 , 9,	3.5	14
48	Internal and external surface features of newly developed porous ceramics with random interconnected 3D channels by a fibrous sacrificial porogen method. <i>Applied Surface Science</i> , 2019 , 489, 226-238	6.7	13
47	Gallium incorporation into phosphate based glasses: Bulk and thin film properties. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 82, 371-382	4.1	13
46	Osteoblast Cell Response to Naturally Derived Calcium Phosphate-Based Materials. <i>Materials</i> , 2018 , 11,	3.5	13
45	First stages of bioactivity of glass-ceramics thin films prepared by magnetron sputtering technique. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010 , 169, 101-105	3.1	13
44	Influence of laser pulse frequency on the microstructure of aluminum nitride thin films synthesized by pulsed laser deposition. <i>Applied Surface Science</i> , 2017 , 394, 197-204	6.7	12

43	Sn-doped TiO ₂ nanotubular thin film for photocatalytic degradation of methyl orange dye. <i>Journal of Physics and Chemistry of Solids</i> , 2020 , 147, 109609	3.9	11
42	Synthesis and characterization of biocompatible polymer-ceramic film structures as favorable interface in guided bone regeneration. <i>Applied Surface Science</i> , 2019 , 494, 335-352	6.7	11
41	Fabrication of naturel pumice/hydroxyapatite composite for biomedical engineering. <i>BioMedical Engineering OnLine</i> , 2016 , 15, 81	4.1	11
40	Preparations of Silver/Montmorillonite Biocomposite Multilayers and Their Antifungal Activity. <i>Coatings</i> , 2019 , 9, 817	2.9	11
39	Multi-stage pulsed laser deposition of aluminum nitride at different temperatures. <i>Applied Surface Science</i> , 2016 , 374, 143-150	6.7	10
38	Dextran-Thyme Magnesium-Doped Hydroxyapatite Composite Antimicrobial Coatings. <i>Coatings</i> , 2020 , 10, 57	2.9	10
37	Animal Origin Bioactive Hydroxyapatite Thin Films Synthesized by RF-Magnetron Sputtering on 3D Printed Cranial Implants. <i>Metals</i> , 2019 , 9, 1332	2.3	10
36	Antimicrobial and Cytocompatible Bovine Hydroxyapatite-Alumina-Zeolite Composite Coatings Synthesized by Pulsed Laser Deposition from Low-Cost Sustainable Natural Resources. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 4026-4036	8.3	9
35	Evaluation of the segregation of paramagnetic impurities at grain boundaries in nanostructured ZnO films. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 14231-8	9.5	9
34	New solutions for combatting implant bacterial infection based on silver nano-dispersed and gallium incorporated phosphate bioactive glass sputtered films: A preliminary study. <i>Bioactive Materials</i> , 2022 , 8, 325-340	16.7	9
33	Pulsed Laser Fabrication of TiO Buffer Layers for Dye Sensitized Solar Cells. <i>Nanomaterials</i> , 2019 , 9,	5.4	8
32	Prototype Orthopedic Bone Plates 3D Printed by Laser Melting Deposition. <i>Materials</i> , 2019 , 12,	3.5	8
31	Effect of the processing parameters on surface, physico-chemical and mechanical features of bioceramics synthesized from abundant carp fish bones. <i>Ceramics International</i> , 2020 , 46, 10159-10171	5.1	7
30	The Beneficial Mechanical and Biological Outcomes of Thin Copper-Gallium Doped Silica-Rich Bio-Active Glass Implant-Type Coatings. <i>Coatings</i> , 2020 , 10, 1119	2.9	7
29	ZnO Thin Films Deposited on Textile Material Substrates for Biomedical Applications. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2012 , 207-210	0.1	6
28	Orientation of the nanocrystallites in AlN thin film determined by FTIR spectroscopy. <i>Journal of Physics: Conference Series</i> , 2016 , 682, 012024	0.3	6
27	Phosphate bioglass thin-films: Cross-area uniformity, structure and biological performance tailored by the simple modification of magnetron sputtering gas pressure. <i>Applied Surface Science</i> , 2021 , 541, 148640	6.7	6
26	Effect of dilute doping and non-equilibrium synthesis on the structural, luminescent and magnetic properties of nanocrystalline Zn _{1-x} Ni _x O (x = 0.0025 D.03). <i>Materials Research Bulletin</i> , 2019 , 115, 37-48	5.1	5

25	Surface-enhanced Raman scattering activity of niobium surface after irradiation with femtosecond laser pulses. <i>Journal of Applied Physics</i> , 2015 , 118, 203104	2.5	5
24	Fish Bone Derived Bi-Phasic Calcium Phosphate Coatings Fabricated by Pulsed Laser Deposition for Biomedical Applications. <i>Marine Drugs</i> , 2020 , 18,	6	5
23	Characterization of MAPLE deposited WO ₃ thin films for electrochromic applications. <i>Journal of Physics: Conference Series</i> , 2017 , 780, 012013	0.3	4
22	Comprehensive analysis of compatible natural fibre as sacrificial porogen template for tailored ceramic 3D bioproducts destined for hard tissue reconstruction. <i>Ceramics International</i> , 2021 , 47, 5318-5334	5.1	4
21	Tuning Hydroxyapatite Particles' Characteristics for Solid Freeform Fabrication of Bone Scaffolds 2016 , 321-397		3
20	InN Based Water Condensation Sensors on Glass and Flexible Plastic Substrates. <i>Sensors</i> , 2013 , 13, 16940-16949	1.6	3
19	Role of vanadium oxide on the lithium silicate glass structure and properties. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 2495-2505	3.8	3
18	AlN/Si Based SAW Resonators for Very High Sensitivity Temperature Sensors 2018 ,		3
17	Optimized silicon reinforcement of carbon coatings by pulsed laser technique for superior functional biomedical surfaces fabrication. <i>Biofabrication</i> , 2017 , 9, 025029	10.5	2
16	Synthesis and characterization of antibacterial drug loaded β-tricalcium phosphate powders for bone engineering applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2020 , 31, 16	4.5	2
15	Bioactive glass thin films synthesized by advanced pulsed laser techniques. <i>Journal of Physics: Conference Series</i> , 2016 , 764, 012020	0.3	2
14	Thermal Degradation and Morphological Characteristics of Bone Products 2015 , 393-410		2
13	Pulsed laser deposition of highly textured La ₅ Ca ₉ Cu ₂₄ O ₄₁ films on SrLaAlO ₄ (100) and Gd ₃ Ga ₅ O ₁₂ (100) substrates. <i>Applied Surface Science</i> , 2012 , 258, 9475-9479	6.7	2
12	Erratum to Effect of annealing upon the structure and adhesion properties of sputtered bio-glass/titanium coatings [Appl. Surf. Sci. 255 (2009) 9132-9138]. <i>Applied Surface Science</i> , 2009 , 256, 1617	6.7	2
11	The Behavior of Gold Metallized AlN/Si- and AlN/Glass-Based SAW Structures as Temperature Sensors. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 1938-1948	3.2	2
10	Influence of a hydrophobin underlayer on the structuring and antimicrobial properties of ZnO films. <i>Journal of Materials Science</i> , 2013 , 48, 8329-8336	4.3	1
9	Studies on Tribological Behavior of Aluminum Nitride-Coated Steel. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 174, 012052	0.4	1
8	Hydroxyapatite thin films synthesized by Pulsed Laser Deposition onto titanium mesh implants for cranioplasty applications 2013 ,		1

7	The Physico-Chemical Properties and Exploratory Real-Time Cell Analysis of Hydroxyapatite Nanopowders Substituted with Ce, Mg, Sr, and Zn (0.5-5 at.%). <i>Materials</i> , 2021 , 14,	3.5	1
6	Magneto-optical properties of borophosphate glasses co-doped with Tb ³⁺ and Dy ³⁺ ions. <i>Journal of Non-Crystalline Solids</i> , 2021 , 568, 120967	3.9	1
5	Tailoring the electric and magnetic properties of submicron-sized metallic multilayered systems by TVA atomic inter-diffusion engineered processes. <i>Applied Surface Science</i> , 2015 , 358, 619-626	6.7	0
4	Physical Vapour Deposited Biomedical Coatings. <i>Coatings</i> , 2021 , 11, 619	2.9	0
3	Effect of Vanadium Oxide on the Structure and Li-Ion Conductivity of Lithium Silicate Glasses. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 16843-16857	3.8	0
2	Studies on Obtaining Porous Hydroxyapatite Structures Using Porogen Agents of Natural Origin. <i>Proceedings (mdpi)</i> , 2019 , 29, 13	0.3	
1	RF-Sputtered ZnO Thin Films: The Tailoring of Structural, Electrical and Optical Properties. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1327, 31501		