

Ian J Davies

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124
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129
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2,535
ext. citations

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L-index

#	Paper	IF	Citations
124	Optimal design for the flexural behaviour of glass and carbon fibre reinforced polymer hybrid composites. <i>Materials & Design</i> , 2012 , 37, 450-457		116
123	A review identifying the effectiveness of minimum quantity lubrication (MQL) during conventional machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 92, 321-340	3.2	115
122	Flexural properties of hybrid composites reinforced by S-2 glass and T700S carbon fibres. <i>Composites Part B: Engineering</i> , 2012 , 43, 573-581	10	110
121	Pipeline failures in corrosive environments [A conceptual analysis of trends and effects. <i>Engineering Failure Analysis</i> , 2015 , 53, 36-58	3.2	96
120	Review of machining metal matrix composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 90, 2429-2441	3.2	64
119	Flexural strength of bidirectional hybrid epoxy composites reinforced by E glass and T700S carbon fibres. <i>Composites Part B: Engineering</i> , 2015 , 72, 65-71	10	62
118	Flexural and tensile strengths of unidirectional hybrid epoxy composites reinforced by S-2 glass and T700S carbon fibres. <i>Materials & Design</i> , 2014 , 54, 955-966		60
117	Recent progress in electrospun nanofibers: Reinforcement effect and mechanical performance. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 1171-1212	2.6	53
116	Multi-objective robust optimisation of unidirectional carbon/glass fibre reinforced hybrid composites under flexural loading. <i>Composite Structures</i> , 2016 , 138, 264-275	5.3	51
115	Flexural Properties of E Glass and TR50S Carbon Fiber Reinforced Epoxy Hybrid Composites. <i>Journal of Materials Engineering and Performance</i> , 2013 , 22, 41-49	1.6	51
114	Fabrication and Properties of Recycled Cellulose Fibre-Reinforced Epoxy Composites. <i>Composite Interfaces</i> , 2009 , 16, 659-669	2.3	50
113	Flexural and tensile moduli of unidirectional hybrid epoxy composites reinforced by S-2 glass and T700S carbon fibres. <i>Materials & Design</i> , 2014 , 54, 893-899		49
112	Microstructural investigation of low-density carbon-carbon composites. <i>Journal of Materials Science</i> , 1994 , 29, 338-344	4.3	45
111	Flexural properties of S-2 glass and TR30S carbon fiber-reinforced epoxy hybrid composites. <i>Polymer Composites</i> , 2012 , 33, 773-781	3	40
110	Effect of oil palm shell powder on the mechanical performance and thermal stability of polyester composites. <i>Materials & Design</i> , 2015 , 65, 823-830		38
109	A review of micro-mechanical cutting. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 94, 789-806	3.2	38
108	Mechanical properties in compression of CVI-densified porous carbon/carbon composite. <i>Composites Science and Technology</i> , 1999 , 59, 97-104	8.6	38

107	The effect of processing parameters on the flexural properties of unidirectional carbon fibre-reinforced polymer (CFRP) composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 498, 65-68	5.3	33
106	Markov chain modelling for time evolution of internal pitting corrosion distribution of oil and gas pipelines. <i>Engineering Failure Analysis</i> , 2016 , 60, 209-228	3.2	32
105	Fibre and interfacial properties measured in situ for a 3D woven SiC/SiC-based composite with glass sealant. <i>Composites Part A: Applied Science and Manufacturing</i> , 1999 , 30, 587-591	8.4	32
104	Effect of filler load on the curing behavior and mechanical and thermal performance of wood flour filled thermoset composites. <i>Journal of Cleaner Production</i> , 2017 , 164, 1145-1156	10.3	31
103	Multiple Cracking and Tensile Behavior for an Orthogonal 3-D Woven Si-Ti-C-O Fiber/Si-Ti-C-O Matrix Composite. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 1565-1574	3.8	31
102	Flexural properties of a hybrid polymer matrix composite containing carbon and silicon carbide fibres. <i>Advanced Composite Materials</i> , 2001 , 10, 77-96	2.8	30
101	Application of Markov modelling and Monte Carlo simulation technique in failure probability estimation – A consideration of corrosion defects of internally corroded pipelines. <i>Engineering Failure Analysis</i> , 2016 , 68, 159-171	3.2	28
100	Flexural properties of macadamia nutshell particle reinforced polyester composites. <i>Composites Part B: Engineering</i> , 2012 , 43, 2751-2756	10	26
99	Multi-objective analysis for optimal and robust design of unidirectional glass/carbon fibre reinforced hybrid epoxy composites under flexural loading. <i>Composites Part B: Engineering</i> , 2016 , 84, 130-139	10	25
98	Effect of matrix voids, fibre misalignment and thickness variation on multi-objective robust optimization of carbon/glass fibre-reinforced hybrid composites under flexural loading. <i>Composites Part B: Engineering</i> , 2017 , 123, 136-147	10	25
97	Determination of filler content for natural filler polymer composite by thermogravimetric analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 122, 227-233	4.1	25
96	Empirical correction factor for the best estimate of Weibull modulus obtained using linear least squares analysis. <i>Journal of Materials Science Letters</i> , 2001 , 20, 997-999		25
95	A Markovian approach for modelling the effects of maintenance on downtime and failure risk of wind turbine components. <i>Renewable Energy</i> , 2016 , 96, 775-783	8.1	25
94	Multi-objective robust optimization of multi-directional carbon/glass fibre-reinforced hybrid composites with manufacture related uncertainties under flexural loading. <i>Composite Structures</i> , 2017 , 182, 132-142	5.3	23
93	Fibre strength parameters measured in situ for ceramic-matrix composites tested at elevated temperature in vacuum and in air. <i>Composites Science and Technology</i> , 1999 , 59, 801-811	8.6	23
92	Preparation of submicrometer-sized porous spherical hydroxyapatite agglomerates by ultrasonic spray pyrolysis technique. <i>Journal of the Ceramic Society of Japan</i> , 2010 , 118, 462-466	1	22
91	Processing of a porous titanium alloy from elemental powders using a solid state isothermal foaming technique. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 3103-7	4.5	22
90	Densification and microstructural developments during the sintering of aluminium silicon carbide. <i>Journal of Materials Science</i> , 2002 , 37, 335-342	4.3	22

89	Flexural Failure of Unidirectional Hybrid Fibre-Reinforced Polymer (FRP) Composites Containing Different Grades of Glass Fibre. <i>Advanced Materials Research</i> , 2008 , 41-42, 357-362	0.5	21
88	Best estimate of Weibull modulus obtained using linear least squares analysis: An improved empirical correction factor. <i>Journal of Materials Science</i> , 2004 , 39, 1441-1444	4.3	21
87	Mechanical and thermal properties of silicon-carbide composites fabricated with short Tyranno \square Si-Zr-C-O fibre. <i>Journal of Materials Science</i> , 2001 , 36, 3679-3686	4.3	21
86	Contribution of machining to the fatigue behaviour of metal matrix composites (MMCs) of varying reinforcement size. <i>International Journal of Fatigue</i> , 2017 , 102, 9-17	5	20
85	Mechanical properties in compression of low density carbon/carbon composites. <i>Composites</i> , 1994 , 25, 229-236		20
84	Predictive Modelling of Internal Pitting Corrosion of Aged Non-Piggable Pipelines. <i>Journal of the Electrochemical Society</i> , 2015 , 162, C251-C259	3.9	19
83	Effect of machining parameters on the surface finish of a metal matrix composite under dry cutting conditions. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2017 , 231, 913-923	2.4	18
82	Numerical investigation of the hybridisation mechanism in fibre reinforced hybrid composites subjected to flexural load. <i>Composites Part B: Engineering</i> , 2016 , 102, 100-111	10	18
81	Compressive failure of unidirectional hybrid fibre-reinforced epoxy composites containing carbon and silicon carbide fibres. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007 , 38, 1070-1074	8.4	18
80	The effect of rare-earth oxide addition on the hot-pressing of magnesium silicon nitride. <i>Journal of the European Ceramic Society</i> , 2002 , 22, 777-783	6	18
79	Tensile creep behavior of 3-D woven Si-Ti-C-O fiber/SiC-based matrix composite with glass sealant. <i>Journal of Materials Science</i> , 2000 , 35, 785-793	4.3	18
78	Mechanical properties in flexure and tension of low density carbon-carbon composites. <i>Carbon</i> , 1994 , 32, 1449-1456	10.4	18
77	Hybrid Composite Using Natural Filler and Multi-Walled Carbon Nanotubes (MWCNTs). <i>Applied Composite Materials</i> , 2018 , 25, 1323-1337	2	17
76	Optical microscopy of a 3-D woven SiC/SiC-based composite. <i>Composites Science and Technology</i> , 1999 , 59, 429-437	8.6	17
75	Eco-friendly polyvinyl alcohol (PVA)/bamboo charcoal (BC) nanocomposites with superior mechanical and thermal properties. <i>Advanced Composite Materials</i> , 2018 , 27, 499-509	2.8	17
74	Estimation of Internal Pit Depth Growth and Reliability of Aged Oil and Gas Pipelines \square A Monte Carlo Simulation Approach. <i>Corrosion</i> , 2015 , 71, 977-991	1.8	16
73	Methods for accurate high-temperature Sieverts-type hydrogen measurements of metal hydrides. <i>Journal of Alloys and Compounds</i> , 2019 , 787, 1225-1237	5.7	15
72	Effect of stacking sequence on the flexural properties of carbon and glass fibre-reinforced hybrid composites. <i>Advanced Composites and Hybrid Materials</i> , 2018 , 1, 530-540	8.7	15

71	Superplastic deformation of hydroxyapatite ceramics with B ₂ O ₃ or Na ₂ O addition fabricated by pulse current pressure sintering. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 2641-2648	6	13
70	Thermal properties of silicon carbide composites fabricated with chopped Tyranno [®] SiAlC fibres. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 703-710	6	12
69	In situ neutron diffraction investigation on the phase transformation sequence of kaolinite and halloysite to mullite. <i>Physica B: Condensed Matter</i> , 2006 , 385-386, 555-557	2.8	12
68	Mechanical properties of Macadamia nutshell powder and PLA bio-composites. <i>Australian Journal of Mechanical Engineering</i> , 2017 , 15, 150-156	1	11
67	Robustness for unidirectional carbon/glass fibre reinforced hybrid epoxy composites under flexural loading. <i>Composite Structures</i> , 2015 , 128, 354-362	5.3	11
66	Rapid mapping and analysing rock mass discontinuities with 3D terrestrial laser scanning in the underground excavation. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018 , 110, 28-35	6	11
65	Unbiased estimation of Weibull modulus using linear least squares analysis: A systematic approach. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 369-380	6	11
64	Sustainable asset integrity management: Strategic imperatives for economic renewable energy generation. <i>Renewable Energy</i> , 2014 , 67, 143-152	8.1	11
63	Mechanical and thermal characterization of polyester composite containing treated wood flour from Palm oil biomass. <i>Polymer Composites</i> , 2018 , 39, 1200-1211	3	10
62	Stochastic modelling of perfect inspection and repair actions for leak failure prone internal corroded pipelines. <i>Engineering Failure Analysis</i> , 2016 , 60, 40-56	3.2	10
61	Influence of Compressive Pressure, Vacuum Pressure, and Holding Temperature Applied during Autoclave Curing on the Microstructure of Unidirectional CFRP Composites. <i>Advanced Materials Research</i> , 2008 , 41-42, 323-328	0.5	10
60	Fabrication of silicon carbide composites with carbon nanofiber addition and their fracture toughness. <i>Journal of Materials Science</i> , 2010 , 45, 6052-6058	4.3	9
59	Morphological and microstructural changes during the heating of spherical calcium orthophosphate agglomerates prepared by spray pyrolysis. <i>Particuology: Science and Technology of Particles</i> , 2004 , 2, 200-206		9
58	Bundle to bundle variation of mean fiber radius for Tyranno [®] LoxM Si-Ti-C-O fibers. <i>Journal of Materials Science Letters</i> , 2001 , 20, 505-507		9
57	Unbiased estimation of the Weibull scale parameter using linear least squares analysis. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 2973-2981	6	8
56	Confidence limits for Weibull parameters estimated using linear least squares analysis. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 5057-5064	6	8
55	Flexural properties of glass and carbon fiber reinforced epoxy hybrid composites. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2013 , 227, 308-317	1.3	8
54	Effect of radius variation on the mean strength of brittle fibers. <i>Journal of Materials Science Letters</i> , 2001 , 20, 1103-1105		8

53	Estimation of the fracture toughness of Tyranno Si-Ti-C-O fibres from flaw size and "fracture mirror" data measured in situ a 3-D woven SiC/SiC composite. <i>International Journal of Materials and Product Technology</i> , 2001 , 16, 189	1	8
52	Tensile strength of pine needles and their feasibility as reinforcement in composite materials. <i>Journal of Materials Science</i> , 2014 , 49, 8057-8062	4.3	7
51	Flexural Properties of Wheat Straw Reinforced Polyester Composites. <i>American Journal of Materials Science</i> , 2012 , 1, 71-75		7
50	Influence of Alkali Treatment and Nanoclay Content on the Properties of Rice Husk Filled Polyester Composites. <i>Materials Science Forum</i> , 2017 , 882, 89-100	0.4	6
49	Finite element analysis of edge crack delamination and optimisation of functionally graded interlayer for coated stainless steel in hydrogen storage applications. <i>Surface and Coatings Technology</i> , 2019 , 372, 148-159	4.4	6
48	Optimization of material formulation and processing parameters in relation to mechanical properties of bioepoxy/clay nanocomposites using Taguchi design of experiments. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45769	2.9	6
47	The Effect of Alkali Treatment of OPKS Filler on Mechanical Property of Polyester-Composite. <i>Advanced Materials Research</i> , 2014 , 980, 86-90	0.5	6
46	Sinterability of magnesium silicon nitride powder with yttrium oxide addition coated using the homogeneous precipitation method. <i>Journal of Materials Science</i> , 2002 , 37, 737-744	4.3	6
45	Sinterability of SiAlON powder prepared by carbothermal reduction and simultaneous nitridation of ultrafine powder in the Al ₂ O ₃ -SiO ₂ system. <i>Journal of Materials Science</i> , 2001 , 36, 165-172	4.3	6
44	Microprobe fluorescence spectroscopy evaluation of stress fields developed along a propagating crack in an Al ₂ O ₃ /CaO 6Al ₂ O ₃ ceramic composite. <i>Journal of Materials Research</i> , 2001 , 16, 2798-2804	2.5	6
43	Tribological behavior of unsaturated polyester hybrid composites containing wood flour and carbon nanotubes. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	5
42	Effect of chopped SiAlN fiber addition on the mechanical properties of silicon carbide composite. <i>Journal of Materials Science</i> , 2006 , 41, 7466-7473	4.3	5
41	Modelling the effects of production rates and physico-chemical parameters on pitting rate and pit depth growth of onshore oil and gas pipelines. <i>Corrosion Engineering Science and Technology</i> , 2016 , 51, 342-351	1.7	5
40	Fracture behaviour of boride-dispersed composites fabricated by hot-pressing amorphous Ni ₆₀ Mo ₃₀ B ₁₀ powder. <i>Journal of Materials Science</i> , 1998 , 33, 4727-4732	4.3	4
39	Microstructure-Property Relationships in Human Adult and Baby Canine Teeth. <i>Key Engineering Materials</i> , 2006 , 309-311, 23-26	0.4	4
38	Properties of Calcium Phosphate Powder Prepared from Phosphoryl Oligosaccharides of Calcium. <i>Key Engineering Materials</i> , 2006 , 309-311, 515-518	0.4	4
37	Mirror Constant for Tyranno Silicon-Titanium-Carbon-Oxygen Fibers Measured in Situ in a Three-Dimensional Woven Silicon Carbide/Silicon Carbide Composite. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 691-693	3.8	4
36	Effect of variable radius on the initial creep rate of ceramic fibres. <i>Journal of Materials Science</i> , 2005 , 40, 6187-6193	4.3	4

35	Effect of sintering conditions on mechanical and physical properties of MgO ceramic reinforced with chopped SiC fibre. <i>Materials Letters</i> , 2000 , 43, 203-207	3.3	4
34	Case study of failure in a glass-sealed SiC/SiC-based composite creep tested at 1100°C in air. <i>Materials Letters</i> , 2001 , 48, 205-209	3.3	4
33	MICROSTRUCTURES OF SPHERICAL CALCIUM-PHOSPHATE AGGLOMERATES PREPARED BY SPRAY-PYROLYSIS AND FREEZE-DRYING TECHNIQUES. <i>Phosphorus Research Bulletin</i> , 2006 , 20, 47-60	0.3	4
32	Effect of colloidal silica addition on the formation of porous spherical .ALPHA.-calcium orthophosphate agglomerates by spray pyrolysis technique. <i>Journal of the Ceramic Society of Japan</i> , 2009 , 117, 363-368	1	3
31	Distribution of fibre pullout length and interface shear strength within a single fibre bundle for an orthogonal 3-D woven SiC fibre/SiC matrix composite tested at 1100°C in air. <i>Journal of the European Ceramic Society</i> , 2005 , 25, 599-604	6	3
30	Creep Behavior and Modeling of SiC-Based PC Ceramic Matrix Composites with Glass Sealant in High Temperature Air. <i>Key Engineering Materials</i> , 1998 , 164-165, 197-200	0.4	3
29	Effect of Surface-Modified Si-Al-C Fibre Addition on the Mechanical Properties of Silicon Carbide Composite. <i>Advances in Science and Technology</i> , 2010 , 71, 127-132	0.1	2
28	Mechanical and Thermal Properties of Silicon Carbide Composites with Chopped Si-Al-C Fiber Addition. <i>Key Engineering Materials</i> , 2008 , 403, 257-260	0.4	2
27	Preparation of Hollow and Spherical Calcium Orthophosphate Agglomerates: Effect of Organic Compound Addition to the Spraying Solution. <i>Key Engineering Materials</i> , 2006 , 309-311, 129-132	0.4	2
26	Stress/Strain Behavior of a 3-D Woven Composite Based on the SiC/SiC System.. <i>Journal of the Ceramic Society of Japan</i> , 2001 , 109, 643-646		2
25	Mechanisms and control of edge interfacial delamination in a multilayer system containing a functionally graded interlayer. <i>Surface and Coatings Technology</i> , 2020 , 382, 125221	4.4	2
24	Fracture toughness enhancement of silicon carbide composites with hydrophilic-modified Tyranno SiAlC fibre addition. <i>Advances in Applied Ceramics</i> , 2017 , 116, 278-285	2.3	1
23	Formation of silicon carbide layer on the vapor-grown carbon nanofiber by sol-gel and carbothermal reduction techniques 2011 ,		1
22	Fabrication of Highly-Densified Hydroxyapatite Ceramic with Boron Oxide Addition and Its Superplastic Deformation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011 , 18, 022020	0.4	1
21	Mechanical and Physical Properties of Recycled Cellulose Fibre-Reinforced Epoxy Eco-Composites. <i>Advanced Materials Research</i> , 2008 , 41-42, 317-322	0.5	1
20	Scanning electron microscopy study of failure in glass-sealed SiC/SiC-based composite (NUSK-CMC) creep tested at 1100 and 1200°C in air. <i>Advanced Composite Materials</i> , 2001 , 10, 357-367	2.8	1
19	Comparison of fibre/matrix interface strength for a 3D woven SiC/SiC composite. <i>Composite Interfaces</i> , 2000 , 7, 479-485	2.3	1
18	In situ Properties of 3-D Woven SiC/SiC-Based Composite. <i>Key Engineering Materials</i> , 1998 , 164-165, 201-204	2.4	1

17	Direct comparison between monofilament and multifilament tow testing for evaluating the tensile strength distribution of SiC fibers. <i>Journal of the European Ceramic Society</i> , 2022 , 42, 1928-1937	6	1
16	PREPARATION OF POROUS SPHERICAL HYDROXYAPATITE AGGLOMERATES INTERACTED WITH CYCLODEXTRIN. <i>Phosphorus Research Bulletin</i> , 2010 , 24, 54-61	0.3	1
15	Identification of preferred combination of factors in manufacturing bioepoxy/clay nanocomposites. <i>Advanced Composite Materials</i> , 2018 , 27, 511-530	2.8	1
14	Tensile and in Situ Fibre Properties of 3-D SiC/SiC-Based Composite Tested at Elevated Temperature in Vacuum and Air with and Without an Oxidation Protection System. <i>Ceramic Engineering and Science Proceedings</i> , 275-282	0.1	1
13	Multi-objective particle swarm optimisation of multilayer functionally graded coating systems for improved interfacial delamination resistance. <i>Materials Today Communications</i> , 2020 , 24, 101202	2.5	0
12	Influence of flaw distribution on single fibre fragmentation. <i>Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics</i> , 2011 , 164, 163-169	0.3	0
11	Advanced Composites with Natural Reinforcement. <i>Advances in Materials Science and Engineering</i> , 2014 , 2014, 1-2	1.5	
10	A simulation study of the Japanese b□ <i>Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology</i> , 2013 , 227, 265-272	0.7	
9	Fabrication of dense βcalcium orthophosphate with submicrometer-sized grains and its high-temperature superplastic deformation. <i>Journal of Materials Science</i> , 2011 , 46, 1956-1962	4.3	
8	Mapping the MicrostructureProperty Relationships in Cortical Bone. <i>Key Engineering Materials</i> , 2006 , 309-311, 523-526	0.4	
7	Comparison between predicted and experimental stress/strain behavior for a 3-D woven SiC/SiC composite tested between room temperature and 1300 °C. <i>Journal of Materials Science Letters</i> , 2002 , 21, 461-463		
6	Fiber/matrix interface shear strength estimated from fiber pullout length data for Tyranno□ Si-Zr-C-O fiber composites with different SiC-based matrices and interfaces. <i>Journal of Materials Science Letters</i> , 2001 , 20, 2127-2130		
5	A Comparative Study of the Microstructure -Property Relationship in Human Adult and Baby Teeth. <i>Ceramic Engineering and Science Proceedings</i> , 145-152	0.1	
4	FABRICATION OF FLUORAPATITE CERAMIC MATERIAL WITH SUBMICROME -45- TER-SIZED GRAINS AND ITS HIGH-TEMPERATURE PLASTIC DEFORMATION. <i>Phosphorus Research Bulletin</i> , 2009 , 23, 45-51	0.3	
3	Influence of Oxidation on the Micro-Mechanical Properties of a 3-D Woven SiC/SiC Composite Tested in Air at 1100 °C. <i>Ceramic Transactions</i> , 175-186	0.1	
2	Influence of Geometrical Irregularities on the Creep Behaviour of Ceramic Fibres. <i>Ceramic Transactions</i> , 163-174	0.1	
1	EFFECT OF β-CALCIUM ORTHOPHOSPHATE ADDITION ON HIGH- TEMPERATURE PLASTIC DEFORMATION OF HYDROXYAPATITE WITH SUBMICROMETER-SIZED GRAINS. <i>Phosphorus Research Bulletin</i> , 2012 , 27, 11-17	0.3	