Joanna M Mckittrick

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Comparison of different protocols for demineralization of cortical bone. Scientific Reports, 2021, 11, 7012.	3.3	15
2	Digital healthcare technologies: Modern tools to transform prosthetic care. Expert Review of Medical Devices, 2021, 18, 129-144.	2.8	7
3	Beyond density: Mesostructural features of impact resistant wood. Materials Today Communications, 2020, 22, 100697.	1.9	5
4	The role of collagen in the dermal armor of the boxfish. Journal of Materials Research and Technology, 2020, 9, 13825-13841.	5.8	7
5	Radular stylus of Cryptochiton stelleri: A multifunctional lightweight and flexible fiber-reinforced composite. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 111, 103991.	3.1	14
6	Scale and size effects on the mechanical properties of bioinspired 3D printed two-phase composites. Journal of Materials Research and Technology, 2020, 9, 14944-14960.	5.8	13
7	Deproteinized young bone reveals a continuous mineral phase and its contribution to mechanical properties with age. Journal of Materials Research and Technology, 2020, 9, 15421-15432.	5.8	2
8	Applying Bio-Inspired hierarchical design to jamming technology: Improving density-efficient mechanical properties and opening application spaces. Journal of Materials Research and Technology, 2020, 9, 15555-15565.	5.8	3
9	Cholla cactus frames as lightweight and torsionally tough biological materials. Acta Biomaterialia, 2020, 112, 213-224.	8.3	8
10	Mechanical Optimization of Diatomite Monoliths from Freeze Casting for High-Throughput Applications. ACS Applied Bio Materials, 2020, 3, 4444-4453.	4.6	1
11	Modeling zirconia sintering trajectory for obtaining translucent submicronic ceramics for dental implant applications. Acta Materialia, 2020, 188, 101-107.	7.9	17
12	Multiscale Toughening Mechanisms in Biological Materials and Bioinspired Designs. Advanced Materials, 2019, 31, e1901561.	21.0	342
13	In situ Wear Study Reveals Role of Microstructure on Self-Sharpening Mechanism in Sea Urchin Teeth. Matter, 2019, 1, 1246-1261.	10.0	15
14	Consolidation of Molybdenum nanopowders by spark plasma sintering: Densification mechanism and first mirror application. Journal of Nuclear Materials, 2019, 516, 354-359.	2.7	14
15	Electric current effects in spark plasma sintering: From the evidence of physical phenomenon to constitutive equation formulation. Scripta Materialia, 2019, 170, 90-94.	5.2	18
16	Color tunable single-phase Eu ²⁺ and Ce ³⁺ co-activated Sr ₂ LiAlO ₄ phosphors. Journal of Materials Chemistry C, 2019, 7, 7734-7744.	5.5	26
17	Microstructural evolution of paramagnetic materials by magnetic freeze casting. Journal of Materials Research and Technology, 2019, 8, 2247-2254.	5.8	13
18	A Natural Stress Deflector on the Head? Mechanical and Functional Evaluation of the Woodpecker Skull Bones. Advanced Theory and Simulations, 2019, 2, 1800152.	2.8	17

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19	Radial-Concentric Freeze Casting Inspired by Porcupine Fish Spines. Ceramics, 2019, 2, 161-179.	2.6	23
20	How Water Can Affect Keratin: Hydrationâ€Driven Recovery of Bighorn Sheep (Ovis Canadensis) Horns. Advanced Functional Materials, 2019, 29, 1901077.	14.9	29
21	3D Printed Templating of Extrinsic Freeze-Casting for Macro–Microporous Biomaterials. ACS Biomaterials Science and Engineering, 2019, 5, 2122-2133.	5.2	24
22	A natural energy absorbent polymer composite: The equine hoof wall. Acta Biomaterialia, 2019, 90, 267-277.	8.3	47
23	External Field Assisted Freeze Casting. Ceramics, 2019, 2, 208-234.	2.6	34
24	Energy efficient spark plasma sintering: Breaking the threshold of large dimension tooling energy consumption. Journal of the American Ceramic Society, 2019, 102, 706-716.	3.8	8
25	Oxidation effects on spark plasma sintering of molybdenum nanopowders. Journal of the American Ceramic Society, 2019, 102, 801-812.	3.8	9
26	Mining Unexplored Chemistries for Phosphors for High-Color-Quality White-Light-Emitting Diodes. Joule, 2018, 2, 914-926.	24.0	97
27	An Overview on Additive Manufacturing of Polymers. Jom, 2018, 70, 275-283.	1.9	97
28	Effect of electric current on densification behavior of conductive ceramic powders consolidated by spark plasma sintering. Acta Materialia, 2018, 144, 524-533.	7.9	106
29	A Facile Method Using a Flux to Improve Quantum Efficiency of Submicron Particle Sized Phosphors for Solid-State Lighting Applications. Ceramics, 2018, 1, 38-53.	2.6	3
30	Mechanical Properties of Model Twoâ€Phase Composites with Continuous Compared to Discontinuous Phases. Advanced Engineering Materials, 2018, 20, 1800505.	3.5	12
31	A comparative analysis of the avian skull: Woodpeckers and chickens. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 84, 273-280.	3.1	12
32	Response of Sea Urchin Fitness Traits to Environmental Gradients Across the Southern California Oxygen Minimum Zone. Frontiers in Marine Science, 2018, 5, .	2.5	12
33	Deproteinization of Cortical Bone: Effects of Different Treatments. Calcified Tissue International, 2018, 103, 554-566.	3.1	16
34	Microstructure and mechanical properties of different keratinous horns. Journal of the Royal Society Interface, 2018, 15, 20180093.	3.4	33
35	Structure and mechanical implications of the pectoral fin skeleton in the Longnose Skate (Chondrichthyes, Batoidea). Acta Biomaterialia, 2017, 51, 393-407.	8.3	11
36	Spines of the porcupine fish: Structure, composition, and mechanical properties. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 73, 38-49.	3.1	17

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37	Stiff, porous scaffolds from magnetized alumina particles aligned by magnetic freeze casting. Materials Science and Engineering C, 2017, 77, 484-492.	7.3	45
38	Hierarchical structure and compressive deformation mechanisms of bighorn sheep (Ovis canadensis) horn. Acta Biomaterialia, 2017, 64, 1-14.	8.3	60
39	Reinforcements in avian wing bones: Experiments, analysis, and modeling. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 76, 85-96.	3.1	19
40	Synergistic structures from magnetic freeze casting with surface magnetized alumina particles and platelets. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 76, 153-163.	3.1	32
41	A Sinusoidally Architected Helicoidal Biocomposite. Advanced Materials, 2016, 28, 6835-6844.	21.0	158
42	An integrated first principles and experimental investigation of the relationship between structural rigidity and quantum efficiency in phosphors for solid state lighting. Journal of Luminescence, 2016, 179, 297-305.	3.1	24
43	Microstructural Control of Colloidalâ€Based Ceramics by Directional Solidification Under Weak Magnetic Fields. Journal of the American Ceramic Society, 2016, 99, 1917-1926.	3.8	37
44	Bioinspired intrinsic control of freeze cast composites: Harnessing hydrophobic hydration and clathrate hydrates. Acta Materialia, 2016, 114, 67-79.	7.9	24
45	Structural analysis of the tongue and hyoid apparatus in a woodpecker. Acta Biomaterialia, 2016, 37, 1-13.	8.3	41
46	Effect of starch on the mechanical and in vitro properties of collagen-hydroxyapatite sponges for applications in dentistry. Carbohydrate Polymers, 2016, 148, 78-85.	10.2	23
47	Densification mechanism and mechanical properties of tungsten powder consolidated by spark plasma sintering. International Journal of Refractory Metals and Hard Materials, 2016, 61, 22-29.	3.8	58
48	Thermally stimulated luminescence and persistent luminescence of β-irradiated YAG:Pr3+ nanophosphors produced by combustion synthesis. Radiation Measurements, 2016, 94, 35-40.	1.4	8
49	A Protocol for Bioinspired Design: A Ground Sampler Based on Sea Urchin Jaws. Journal of Visualized Experiments, 2016, , .	0.3	8
50	Reproducibility of ZrO2-based freeze casting for biomaterials. Materials Science and Engineering C, 2016, 61, 105-112.	7.3	54
51	Review—Electrophoretic Deposition of Phosphors for Solid-State Lighting. ECS Journal of Solid State Science and Technology, 2016, 5, R3107-R3120.	1.8	22
52	Structure and mechanical properties of selected protective systems in marine organisms. Materials Science and Engineering C, 2016, 59, 1143-1167.	7.3	83
53	Keratin: Structure, mechanical properties, occurrence in biological organisms, and efforts at bioinspiration. Progress in Materials Science, 2016, 76, 229-318.	32.8	571
54	Structural Design Elements in Biological Materials: Application to Bioinspiration. Advanced Materials, 2015, 27, 5455-5476.	21.0	472

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55	Bioinspired composites from freeze casting with clathrate hydrates. Materials & Design, 2015, 71, 62-67.	5.1	29
56	Particle morphology and luminescence properties of green emitting Ba2SiO4:Eu2+ through a hydrothermal reaction route. Journal of Luminescence, 2015, 161, 20-24.	3.1	19
57	Experimentally-based multiscale model of the elastic moduli of bovine trabecular bone and its constituents. Materials Science and Engineering C, 2015, 54, 207-216.	7.3	12
58	The armored carapace of the boxfish. Acta Biomaterialia, 2015, 23, 1-10.	8.3	63
59	Why the seahorse tail is square. Science, 2015, 349, aaa6683.	12.6	82
60	Sintering of bi-porous titanium dioxide scaffolds: Experimentation, modeling and simulation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 636, 148-156.	5.6	21
61	Comparison of luminescent properties of Y2O3:Eu3+ and LaPO4:Ce3+, Tb3+ phosphors prepared by various synthetic methods. Materials Characterization, 2015, 103, 162-169.	4.4	25
62	Densification of zirconium nitride by spark plasma sintering and high voltage electric discharge consolidation: A comparative analysis. Ceramics International, 2015, 41, 14973-14987.	4.8	32
63	Torsional properties of helix-reinforced composites fabricated by magnetic freeze casting. Composite Structures, 2015, 119, 174-184.	5.8	48
64	Computer modelling and biomimetics for understanding the evolution of tail grasping in seahorses. FASEB Journal, 2015, 29, 342.3.	0.5	0
65	Porous Scaffolds: Bioinspired Scaffolds with Varying Pore Architectures and Mechanical Properties (Adv. Funct. Mater. 14/2014). Advanced Functional Materials, 2014, 24, 2108-2108.	14.9	0
66	Creep of trabecular bone from the human proximal tibia. Materials Science and Engineering C, 2014, 40, 219-227.	7.3	21
67	Electrophoretic Deposition of Nano- and Micron-Sized Ba ₂ SiO ₄ :Eu ²⁺ Phosphor Particles. Journal of the Electrochemical Society, 2014, 161, D111-D117.	2.9	6
68	Review: Down Conversion Materials for Solid‣tate Lighting. Journal of the American Ceramic Society, 2014, 97, 1327-1352.	3.8	371
69	Bioinspired Scaffolds with Varying Pore Architectures and Mechanical Properties. Advanced Functional Materials, 2014, 24, 1978-1987.	14.9	109
70	Analysis of (Ba,Ca,Sr)3MgSi2O8:Eu2+, Mn2+ phosphors for application in solid state lighting. Journal of Luminescence, 2014, 148, 1-5.	3.1	24
71	Identification and development of nanoscintillators for biotechnology applications. Journal of Luminescence, 2014, 154, 569-577.	3.1	27
72	Toward a better understanding of mineral microstructure in bony tissues. Bioinspired, Biomimetic and Nanobiomaterials, 2014, 3, 71-84.	0.9	7

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73	Correlation of Multi-scale Modeling and Experimental Results for the Elastic Modulus of Trabecular Bone. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 59-65.	0.5	0
74	Biomimetic Materials by Freeze Casting. Jom, 2013, 65, 720-727.	1.9	60
75	Kinetic characterization of the deproteinization of trabecular and cortical bovine femur bones. Materials Science and Engineering C, 2013, 33, 4958-4964.	7.3	11
76	A comparative study of young and mature bovine cortical bone. Acta Biomaterialia, 2013, 9, 5280-5288.	8.3	51
77	Synthesis and characterization of (Lu1â^'â^'Y Ce)2SiO5 luminescent powders with fast decay time. Journal of Luminescence, 2013, 136, 86-89.	3.1	8
78	Axial compression of a hollow cylinder filled with foam: A study of porcupine quills. Acta Biomaterialia, 2013, 9, 5297-5304.	8.3	46
79	Separating the influence of the cortex and foam on the mechanical properties of porcupine quills. Acta Biomaterialia, 2013, 9, 9065-9074.	8.3	48
80	Structural Biological Materials: Critical Mechanics-Materials Connections. Science, 2013, 339, 773-779.	12.6	878
81	Europiumâ€Activated <scp><scp>KSrPO</scp></scp> ₄ –(<scp><scp>Ba</scp></scp> , <scp>Sr</scp>) <sub Solid Solutions as Colorâ€Tunable Phosphors for Nearâ€<scp>UV</scp> Lightâ€Emitting Diode Applications. Journal of the American Ceramic Society, 2013, 96, 1526-1532</sub 	>2	<scp><scp>S</scp></scp>
82	Highly deformable bones: Unusual deformation mechanisms of seahorse armor. Acta Biomaterialia, 2013, 9, 6763-6770.	8.3	64
83	Rapid processing & characterization of micro-scale functionally graded porous materials. Journal of Materials Processing Technology, 2013, 213, 1251-1257.	6.3	7
84	Initial anisotropy in demineralized bovine cortical bone in compressive cyclic loading–unloading. Materials Science and Engineering C, 2013, 33, 817-823.	7.3	8
85	Europium-activated barium/strontium silicates for near-UV light emitting diode applications. Journal of Luminescence, 2013, 133, 184-187.	3.1	18
86	Electrophoretic Deposition of Phosphors for White Solid State Lighting Using Near UV-Emitting LEDs. ECS Journal of Solid State Science and Technology, 2013, 2, R153-R159.	1.8	7
87	Phosphor Development and Integration for Near-UV LED Solid State Lighting. ECS Journal of Solid State Science and Technology, 2013, 2, R3138-R3147.	1.8	49
88	Phosphor Selection Considerations for Near-UV LED Solid State Lighting. ECS Journal of Solid State Science and Technology, 2013, 2, R3119-R3131.	1.8	98
89	Comparison of Electrophoretic Deposition of Nano- and Micron-Sized Ba2SiO4:Eu2+ Phosphor Particles. ECS Meeting Abstracts, 2013, , .	0.0	0
90	Development of Phosphors for White Emitting Near UV LEDs. ECS Meeting Abstracts, 2013, , .	0.0	0

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91	Porous Hydroxyapatite-Polyhydroxybutyrate Composites Fabricated by a Novel Method Via Centrifugation. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 63-71.	0.5	7
92	Isolation of Collagen from Cortical Bovine Bone for Preparation of Porous Collagen Sponges. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 73-78.	0.5	4
93	EPD of Phosphors for Display and Solid State Lighting Technologies. Key Engineering Materials, 2012, 507, 149-153.	0.4	5
94	Hierarchical Structure of Porosity in Cortical and Trabecular Bones. Materials Research Society Symposia Proceedings, 2012, 1420, 24.	0.1	1
95	Effect of SiO <inf>2</inf> coatings on halophosphate phosphors for near UV-emitting LEDs. , 2012, , .		1
96	White-emitting solid state lighting by electrophoretic deposition of phosphors. , 2012, , .		2
97	Sol-Gel Synthesis of Single Phase, High Quantum Efficiency LiCaPO ₄ :Eu ²⁺ Phosphors. ECS Journal of Solid State Science and Technology, 2012, 1, R37-R40.	1.8	23
98	Nano- and Submicron Sized Europium Activated Silicate Phosphors Prepared by a Modified Co-Precipitation Method. ECS Journal of Solid State Science and Technology, 2012, 1, R98-R102.	1.8	24
99	Potential Bone Replacement Materials Prepared by Two Methods. Materials Research Society Symposia Proceedings, 2012, 1418, 177.	0.1	57
100	Biological materials: Functional adaptations and bioinspired designs. Progress in Materials Science, 2012, 57, 1492-1704.	32.8	582
101	Magnetic freeze casting inspired by nature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 556, 741-750.	5.6	121
102	Densification mechanisms of spark plasma sintering: multi-step pressure dilatometry. Journal of Materials Science, 2012, 47, 7036-7046.	3.7	50
103	The Structure, Functions, and Mechanical Properties of Keratin. Jom, 2012, 64, 449-468.	1.9	266
104	Flexible Dermal Armor in Nature. Jom, 2012, 64, 475-485.	1.9	41
105	Elastic moduli of untreated, demineralized and deproteinized cortical bone: Validation of a theoretical model of bone as an interpenetrating composite material. Acta Biomaterialia, 2012, 8, 1080-1092.	8.3	64
106	Elastic properties of cancellous bone in terms of elastic properties of its mineral and protein phases with application to their osteoporotic degradation. Mechanics of Materials, 2012, 44, 139-150.	3.2	8
107	Photo- and radioluminescence characteristics of bismuth germanate nanoparticles by sol–gel and pressure-assisted combustion synthesis. Optical Materials, 2012, 34, 1116-1119.	3.6	18
108	Structure dependent luminescence characterization of green–yellow emitting Sr2SiO4:Eu2+ phosphors for near UV LEDs. Journal of Luminescence, 2012, 132, 106-109.	3.1	45

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109	Photoluminescence of Europium-Activated Hydroxyapatite Nanoparticles in Body Fluids. Science of Advanced Materials, 2012, 4, 558-562.	0.7	8
110	Luminescence Properties and Stability Improvement by SiO2 Coating on Various Phosphors for Near UV-Emitting LEDs. ECS Meeting Abstracts, 2012, , .	0.0	2
111	Compressive mechanical properties of demineralized and deproteinized cancellous bone. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 961-973.	3.1	77
112	Minerals Form a Continuum Phase in Mature Cancellous Bone. Calcified Tissue International, 2011, 88, 351-361.	3.1	110
113	Armadillo armor: Mechanical testing and micro-structural evaluation. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 713-722.	3.1	138
114	Correlation of the mechanical and structural properties of cortical rachis keratin of rectrices of the Toco Toucan (Ramphastos toco). Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 723-732.	3.1	40
115	The effects of water and microstructure on the mechanical properties of bighorn sheep (Ovis) Tj ETQq1 1 0.7843	514 rgBT /(8.3	Overlock 10
116	Anisotropy in the compressive mechanical properties of bovine cortical bone and the mineral and protein constituents. Acta Biomaterialia, 2011, 7, 3170-3177.	8.3	96
117	Luminescence enhancement of Y2O3:Eu3+ and Y2SiO5:Ce3+,Tb3+ core particles with SiO2 shells. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 436-441.	3.5	47
118	Growth of nacre in abalone: Seasonal and feeding effects. Materials Science and Engineering C, 2011, 31, 238-245.	7.3	25
119	Impact testing of structural biological materials. Materials Science and Engineering C, 2011, 31, 730-739.	7.3	45
120	Kinetic studies of bone demineralization at different HCl concentrations and temperatures. Materials Science and Engineering C, 2011, 31, 523-530.	7.3	23
121	Reprint of: Growth of nacre in abalone: Seasonal and feeding effects. Materials Science and Engineering C, 2011, 31, 716-723.	7.3	8
122	An analysis of Y2O3:Eu3+ thin films for thermographic phosphor applications. Journal of Luminescence, 2011, 131, 41-48.	3.1	30
123	COMPARISON OF DEMINERALIZED AND DEPROTEINIZED BONE. Materials Research Society Symposia Proceedings, 2011, 1301, 27.	0.1	2
124	Investigations into Demineralized Cortical Bone. Materials Research Society Symposia Proceedings, 2011, 1301, 33.	0.1	0
125	Recent advances on the measurement and calculation of the elastic moduli of cortical and trabecular bone: A review. Theoretical and Applied Mechanics, 2011, 38, 209-297.	0.3	57
126	Dynamic fracture resilience of elk antler: Biomimetic inspiration for improved crashworthiness. Jom, 2010, 62, 41-46.	1.9	9

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127	Energy absorbent natural materials and bioinspired design strategies: A review. Materials Science and Engineering C, 2010, 30, 331-342.	7.3	178
128	Microstructure, elastic properties and deformation mechanisms of horn keratin. Acta Biomaterialia, 2010, 6, 319-330.	8.3	120
129	Mechanistic aspects of the fracture toughness of elk antler bone. Acta Biomaterialia, 2010, 6, 1505-1514.	8.3	148
130	Synthesis and Photoluminescence Properties of Y2O3:Eu3+/SiO2 Core/Shell Phosphor Nanoparticles. ECS Transactions, 2010, 28, 183-190.	0.5	3
131	Study of Luminescence from GaN:Tb[sup 3+] Powders and Thin Films Deposited by MOVPE and PLD Methods. Journal of the Electrochemical Society, 2009, 156, J158.	2.9	9
132	Bioinspired Inorganic/polymer Thin Films. Materials Research Society Symposia Proceedings, 2009, 1239, 1.	0.1	0
133	Comparison of the structure and mechanical properties of bovine femur bone and antler of the North American elk (Cervus elaphus canadensis). Acta Biomaterialia, 2009, 5, 693-706.	8.3	134
134	The role of organic intertile layer in abalone nacre. Materials Science and Engineering C, 2009, 29, 2398-2410.	7.3	64
135	Structure and mechanical properties of selected biological materials. Journal of the Mechanical Behavior of Biomedical Materials, 2008, 1, 208-226.	3.1	332
136	Structural biological materials: Overview of current research. Jom, 2008, 60, 23-32.	1.9	22
137	Eu3+ activated GaN thin films grown on sapphire by pulsed laser deposition. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 1756-1758.	0.8	3
138	Synthesis of rare-earth activated AlN and GaN powders via a three-step conversion process. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 1889-1891.	0.8	6
139	Structure and mechanical properties of crab exoskeletons. Acta Biomaterialia, 2008, 4, 587-596.	8.3	386
140	Fracture Mechanisms of Bone: A Comparative Study between Antler and Bovine Femur. Materials Research Society Symposia Proceedings, 2008, 1132, 1.	0.1	2
141	Study of GaN:Eu[sup 3+] Thin Films Deposited by Metallorganic Vapor-Phase Epitaxy. Journal of the Electrochemical Society, 2008, 155, J315.	2.9	11
142	A Study of Oxygen Content in GaN, AlN, and GaAlN Powders. Journal of the Electrochemical Society, 2008, 155, J137.	2.9	1
143	A novel hybrid pulsed laser deposition/metalorganic vapour deposition method to form rare-earth activated GaN. Journal Physics D: Applied Physics, 2008, 41, 122001.	2.8	2
144	Long-Ultraviolet-Excited White-Light Emission in Rare-Earth-Activated Yttrium-Oxyorthosilicate. Journal of the American Ceramic Society, 2007, 90, 2484-2488.	3.8	15

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145	In situ characterization of Ti-peroxy gel during formation on titanium surfaces in hydrogen peroxide containing solutions. Materials Science and Engineering C, 2006, 26, 1408-1411.	7.3	8
146	White light emission from rare earth activated yttrium silicate nanocrystalline powders and thin films. Optical Materials, 2005, 27, 1221-1227.	3.6	43
147	Development of luminescent materials with strong UV–blue absorption. Optical Materials, 2005, 27, 1301-1304.	3.6	13
148	Luminescence study in Eu-doped aluminum oxide phosphors. Optical Materials, 2005, 27, 1311-1315.	3.6	62
149	Nanocrystalline Rare Earth-doped Gallium Nitride Phosphor Powders. Materials Research Society Symposia Proceedings, 2005, 866, 184.	0.1	1
150	Pressure influenced combustion synthesis of Â- and Â-Al2O3nanocrystalline powders. Journal of Physics Condensed Matter, 2004, 16, 2585-2591.	1.8	13
151	Luminescence enhancement in Eu3+-doped α- and γ-Al2O3 produced by pressure-assisted low-temperature combustion synthesis. Applied Physics Letters, 2004, 84, 1296-1298.	3.3	40
152	Interaction Between Titanium Implant Surfaces and Hydrogen Peroxide in Biologically Relevant Environments. Materials Research Society Symposia Proceedings, 2004, 823, W11.17.1.	0.1	0
153	Investigation of the physical properties of a blue-emitting phosphor produced using a rapid exothermic reaction. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 97, 265-274.	3.5	52
154	Improving the efficiency of a blue-emitting phosphor by an energy transfer from Gd3+ to Ce3+. Journal of Luminescence, 2003, 104, 47-54.	3.1	97
155	Microstructural properties of Eu-doped GaN luminescent powders. Applied Physics Letters, 2002, 81, 1993-1995.	3.3	29
156	A novel method for the synthesis of sub-microcrystalline wurtzite-type InxGa1â^'xN powders. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 90, 7-12.	3.5	26
157	A New Combustion Synthesis Method for GaN:Eu3+ and Ga2O3:Eu3+ Luminescent Powders. Physica Status Solidi A, 2001, 188, 179-182.	1.7	37
158	A NEW COMBUSTION SYNTHESIS TECHNIQUE FOR RARE EARTH-DOPED III-NITRIDE LUMINESCENT POWDERS. Modern Physics Letters B, 2001, 15, 655-658.	1.9	1
159	New combustion synthesis technique for the production of (In _{<i>x</i>} Ga _{1â^<i>x</i>}) ₂ O ₃ powders: Hydrazine/metal nitrate method. Journal of Materials Research, 2001, 16, 1059-1065.	2.6	46
160	Laser melting of photoluminescent (Y0.92Eu0.08)2O3 films. Journal of Applied Physics, 2001, 90, 3919-3924.	2.5	1
161	Ba0.5Sr0.5TiO3 thin films deposited by PLD on SiO2/Si RuO2/Si and Pt/Si electrodes. Thin Solid Films, 2000, 373, 49-52.	1.8	22
162	Characterization of Photoluminescent (Y _{1–<i>x</i>} Eu _{<i>x</i>}) ₂ O ₃ Thin Films Prepared by Metallorganic Chemical Vapor Deposition. Journal of the American Ceramic Society, 2000, 83, 1241-1246.	3.8	58

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163	Ferroelectric and microstructure properties of Ba1â^'xSrxTiO3 films grown on different electrodes. Integrated Ferroelectrics, 1999, 24, 85-94.	0.7	0
164	The influence of processing parameters on luminescent oxides produced by combustion synthesis. Displays, 1999, 19, 169-172.	3.7	210
165	Preparation of Greenâ€Emitting Sr1 â^' x Eu x Ga2 S 4 Phosphors by a Solidâ€State Rapid Met Journal of the Electrochemical Society, 1999, 146, 4316-4319.	athesis Re 2.9	action.
166	An Investigation of the Chromaticity of Blue Emitting Yttrium Silicate. Materials Research Society Symposia Proceedings, 1999, 558, 15.	0.1	6
167	An Investigation of the Chromaticity of Blue Emitting Yttrium Silicate. Materials Research Society Symposia Proceedings, 1999, 560, 15.	0.1	3
168	Phase Transformation Kinetics in Pb0.91La0.09Zr0.65Ti0.35O3 Films. Journal of Materials Science Letters, 1998, 17, 1445-1447.	0.5	2
169	Predicting and Modeling the Lowâ€Voltage Cathodoluminescent Efficiency of Oxide Phosphors. Journal of the Electrochemical Society, 1998, 145, 3165-3170.	2.9	22
170	Enhanced photoluminescent emission of thin phosphor films via pulsed excimer laser melting. Journal of Materials Research, 1998, 13, 3019-3021.	2.6	7
171	Growth and Analysis of Red, Green and Blue Luminescent Oxide Thin Films. Surface Review and Letters, 1998, 05, 413-417.	1.1	3
172	<title>Improvement of luminescent properties of thin-film phosphors by excimer laser processing</title> . , 1998, , .		0
173	Low-Voltage Cathodoluminescent Properties of Blue-Emitting Yttrium Silicates Doped With Cerium. Materials Research Society Symposia Proceedings, 1998, 508, 269.	0.1	1
174	Microstructural Development, Densification, and Hot Pressing of Celsian Ceramics from Ionâ€Exchanged Zeolite Precursors. Journal of the American Ceramic Society, 1998, 81, 845-852.	3.8	49
175	Modeling and Fabrication of Fineâ€Grain Aluminaâ€Zirconia Composites Produced from Nanocrystalline Precursors. Journal of the American Ceramic Society, 1998, 81, 1773-1780.	3.8	21
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