

Simeon Agathopoulos

List of Publications by Year in descending order

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93
papers

2,115
citations

186265

28
h-index

302126

39
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94
all docs

94
docs citations

94
times ranked

2036
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave synthesis of Al-doped SiC powders and study of their dielectric properties. Materials Research Bulletin, 2010, 45, 247-250.	5.2	80
2	High flux thin film nanocomposite membrane incorporated with functionalized TiO ₂ @reduced graphene oxide nanohybrids for organic solvent nanofiltration. Chemical Engineering Science, 2019, 204, 99-109.	3.8	74
3	Simple Fabrication of Concrete with Remarkable Self-Cleaning Ability, Robust Superhydrophobicity, Tailored Porosity, and Highly Thermal and Sound Insulation. ACS Applied Materials & Interfaces, 2019, 11, 42801-42807.	8.0	73
4	Multifunctional Thin-Film Nanofiltration Membrane Incorporated with Reduced Graphene Oxide@TiO ₂ @Ag Nanocomposites for High Desalination Performance, Dye Retention, and Antibacterial Properties. ACS Applied Materials & Interfaces, 2019, 11, 23535-23545.	8.0	73
5	Polymer-derived porous SiOC ceramic membranes for efficient oil-water separation and membrane distillation. Journal of Membrane Science, 2019, 579, 111-119.	8.2	70
6	Production of Ni-Doped SiC Nanopowders and their Dielectric Properties. Journal of the American Ceramic Society, 2011, 94, 1523-1527.	3.8	54
7	Application of asymmetric Si ₃ N ₄ hollow fiber membrane for cross-flow microfiltration of oily waste water. Journal of the European Ceramic Society, 2018, 38, 4384-4394.	5.7	54
8	Porous Î ² -Sialon planar membrane with a robust polymer-derived hydrophobic ceramic surface. Journal of Membrane Science, 2017, 535, 63-69.	8.2	53
9	New physical insight into crystal structure, luminescence and optical properties of YPO ₄ :Dy ³⁺ -Eu ³⁺ -Tb ³⁺ single-phase white-light-emitting phosphors. Journal of Alloys and Compounds, 2020, 817, 152687.	5.5	53
10	Synthesis of BaSi ₂ O ₂ N ₂ :Ce ³⁺ ,Eu ²⁺ Phosphors and Determination of their Luminescence Properties. Journal of the American Ceramic Society, 2011, 94, 501-507.	3.8	52
11	Photoluminescence properties of Eu ²⁺ -activated CaSi ₂ O ₂ N ₂ : Redshift and concentration quenching. Journal of Applied Physics, 2009, 106, .	2.5	46
12	Highly stable hydrophobic SiNCO nanoparticleâ€modified silicon nitride membrane for zeroâ€discharge water desalination. AIChE Journal, 2017, 63, 1272-1277.	3.6	44
13	Enhanced Piezoelectric and Ferroelectric Properties of Nb ₂ O ₅ Modified Lead Zirconate Titanateâ€Based Composites. Journal of the American Ceramic Society, 2011, 94, 647-650.	3.8	43
14	Influence of substitution of Al-O for Si-N on improvement of photoluminescence properties and thermal stability of Ba ₂ Si ₅ N ₈ :Eu ²⁺ red emitting phosphors. Journal of Alloys and Compounds, 2018, 730, 249-254.	5.5	43
15	Influence of synthesis process on the dielectric properties of B-doped SiC powders. Ceramics International, 2012, 38, 3309-3315.	4.8	38
16	Single-Phase White Light-Emitting Ca ₉ Ba ₉ (9â€)/Lu ₂ Si ₆ O ₂₄ :Eu ²⁺ /Mn ²⁺ Phosphors. ACS Omega, 2017, 2, 6270-6277.	3.8	37
17	Novel Î ¹ -Si ₃ N ₄ planar nanowire superhydrophobic membrane prepared through in-situ nitridation of silicon for membrane distillation. Journal of Membrane Science, 2017, 543, 98-105.	8.2	37
18	Î ² -SiAlON ceramic membranes modified with SiO ₂ nanoparticles with high rejection rate in oil-water emulsion separation. Ceramics International, 2019, 45, 4237-4242.	4.8	37

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19	Crystallization behaviour and properties of BaO-CaO-B ₂ O ₃ -SiO ₂ glasses and glass-ceramics for LTCC applications. <i>Ceramics International</i> , 2018, 44, 10147-10153.	4.8	35
20	Synthesis and characterization of Ce ³⁺ /Tb ³⁺ co-doped CaLa ₄ Si ₃ O ₁₃ phosphors for application in white LED. <i>Optical Materials</i> , 2017, 72, 637-643.	3.6	34
21	Highly Stable Red-Emitting Sr ₂ Si ₅ N ₈ :Eu ²⁺ Phosphor with a Hydrophobic Surface. <i>Journal of the American Ceramic Society</i> , 2017, 100, 257-264.	3.8	34
22	Novel single-phase full-color emitting Ba ₉ Lu ₂ Si ₆ O ₂₄ :Ce ³⁺ /Mn ²⁺ /Tb ³⁺ phosphors for white LED applications. <i>Journal of Materials Science</i> , 2017, 52, 10927-10937.	3.7	33
23	Luminescence and Structural Properties of High Stable Si ³⁺ -Doped BaMgAl ₁₀ O ₁₇ :Eu ²⁺ Phosphors Synthesized by a Mechanochemical Activation Route. <i>Journal of the American Ceramic Society</i> , 2013, 96, 2562-2569.	3.8	32
24	Modern aspects of strategies for developing single-phase broadly tunable white light-emitting phosphors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13041-13071.	5.5	32
25	Luminescence properties and energy transfer in Ce ³⁺ /Tb ³⁺ co-doped Y ₅ Si ₃ O ₁₂ N oxynitride phosphors. <i>Dyes and Pigments</i> , 2019, 160, 675-682.	3.7	31
26	Fabrication of low thermal conductivity yttrium silicate ceramic flat membrane for membrane distillation. <i>Journal of the European Ceramic Society</i> , 2019, 39, 442-448.	5.7	31
27	Influence of mechanical activation on combustion synthesis of fine silicon carbide (SiC) powder. <i>Powder Technology</i> , 2009, 196, 229-232.	4.2	30
28	Porous Al ₂ O ₃ plates prepared by combing foaming and gel-tape casting methods for efficient collection of oil from water. <i>Chemical Engineering Journal</i> , 2019, 370, 658-665.	12.7	29
29	Self-supported porous heterostructure WC/WO ₃ ^x ceramic electrode for hydrogen evolution reaction in acidic and alkaline media. <i>Journal of Advanced Ceramics</i> , 2022, 11, 1208-1221.	17.4	29
30	Preparation of Sr _{1-x} Ca _x LiAl ₃ N ₄ :Eu ²⁺ Solid Solutions and Their Photoluminescence Properties. <i>Journal of the American Ceramic Society</i> , 2016, 99, 3273-3279.	3.8	28
31	Luminescence properties and energy transfer in Al ₅ O ₆ N:Ce ³⁺ ,Tb ³⁺ phosphors. <i>Journal of Luminescence</i> , 2014, 149, 155-158.	3.1	26
32	Self-Supported Ceramic Electrode of 1T-2H MoS ₂ Grown on the TiC Membrane for Hydrogen Production. <i>Chemistry of Materials</i> , 2021, 33, 6217-6226.	6.7	26
33	Amino functionalized silica nanoparticles incorporated thin film nanocomposite membrane with suppressed aggregation and high desalination performance. <i>Polymer</i> , 2018, 154, 200-209.	3.8	24
34	Crystal-site engineering for developing tunable green light emitting Ba ₉ Lu ₂ Si ₆ O ₂₄ :Eu ²⁺ phosphors for efficient white LEDs. <i>Journal of Alloys and Compounds</i> , 2018, 767, 374-381.	5.5	24
35	Robust Porous WC-Based Self-Supported Ceramic Electrodes for High Current Density Hydrogen Evolution Reaction. <i>Advanced Science</i> , 2022, 9, e2106029.	11.2	24
36	Synthesis of Y ₃ Al ₅ O ₁₂ :Ce ³⁺ Phosphor by a Facile Hydrogen Iodide-Assisted Sol-Gel Method. <i>Journal of the American Ceramic Society</i> , 2013, 96, 701-703.	3.8	23

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37	One-step synthesis of flower-like Si ₂ N ₂ O nanowires on the surface of porous SiO ₂ ceramic membranes for membrane distillation. <i>Materials Letters</i> , 2018, 232, 74-77.	2.6	22
38	Hard SiOC Microbeads as a High-Performance Lithium-Ion Battery Anode. <i>ACS Applied Energy Materials</i> , 2020, 3, 10183-10191.	5.1	22
39	Numerical Simulation of Thermal Conductivity of Particle Filled Epoxy Composites. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2009, 131, .	1.8	20
40	Superhydrophobic β -Sialon-mullite ceramic membranes with high performance in water treatment. <i>Ceramics International</i> , 2021, 47, 8375-8381.	4.8	19
41	Influence of N-anion-doping on the production and the photoluminescence properties of β -Ca ₂ SiO ₄ :Ce ³⁺ phosphors and the β \rightarrow β' phase transformation. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3313-3320.	5.5	18
42	Production and characterization of durable self-cleaning and engineering porous Al ₂ O ₃ /CaAl ₁₂ O ₁₉ ceramic membranes. <i>Journal of the American Ceramic Society</i> , 2019, 102, 3879-3886.	3.8	18
43	Development of structure and tuning ability of the luminescence of lead-free halide perovskite nanocrystals (NCs). <i>Chemical Engineering Journal</i> , 2021, 420, 127603.	12.7	18
44	Luminescence properties and energy transfer in AlN:Ce ³⁺ , Tb ³⁺ phosphors. <i>Materials Research Bulletin</i> , 2014, 51, 224-227.	5.2	17
45	Fabrication and characterization of robust hydrophobic lotus leaf-like surface on Si ₃ N ₄ porous membrane via polymer-derived SiNCO inorganic nanoparticle modification. <i>Ceramics International</i> , 2018, 44, 16443-16449.	4.8	17
46	SiO ₂ nanoparticles modified Si ₃ N ₄ hollow fiber membrane for efficient oily wastewater microfiltration. <i>Journal of Water Process Engineering</i> , 2019, 29, 100799.	5.6	17
47	Broad band white-light-emitting Y ₅ Si ₃ O ₁₂ N:Ce ³⁺ /Dy ³⁺ oxonitridosilicate phosphors for solid state lighting applications. <i>Journal of Luminescence</i> , 2021, 229, 117687.	3.1	17
48	Highly Efficient and Robust MoS ₂ Nanoflake-Modified-TiN-Ceramic-Membrane Electrode for Electrocatalytic Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2021, 4, 6730-6739.	5.1	17
49	Optimization of Ca ²⁺ content in alginate hydrogel injected in myocardium. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 223-231.	3.4	16
50	The influence of mechanochemical activation on combustion synthesis of Si ₃ N ₄ . <i>Ceramics International</i> , 2008, 34, 1267-1271.	4.8	15
51	Synthesis, characterization, and biological properties of composites of hydroxyapatite and hexagonal boron nitride. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 2384-2392.	3.4	15
52	Effect of Bonding Agent on Metal-Ceramic Bond Strength between Co-Cr Fabricated with Selective Laser Melting and Dental Feldspathic Porcelain. <i>Journal of Prosthodontics</i> , 2019, 28, 1029-1036.	3.7	15
53	Combustion synthesis of ultra-fine SiC powders in low pressure N ₂ -atmosphere. <i>Ceramics International</i> , 2012, 38, 4165-4171.	4.8	14
54	A preparation method for Al/AlN ceramics substrates by using a CuO interlayer. <i>Materials and Design</i> , 2017, 130, 373-380.	7.0	14

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55	Production of calcium hexaluminate porous planar membranes with high morphological stability and low thermal conductivity. <i>Journal of the European Ceramic Society</i> , 2019, 39, 4202-4207.	5.7	14
56	Short-term ventricular restraint attenuates post-infarction remodeling in rats. <i>International Journal of Cardiology</i> , 2013, 165, 278-284.	1.7	13
57	Novel fabrication processing of porous alumina/mullite membrane supports by combining direct foaming, sol-gel, and tape-casting methods. <i>Materials Letters</i> , 2019, 240, 140-143.	2.6	13
58	Synthesis of mono-phase $\text{La}_2\text{Si}_6\text{O}_3\text{N}_8$:Ce ³⁺ , Tb ³⁺ blue-green phosphors with direct silicon nitridation and their photoluminescence properties. <i>Materials Research Bulletin</i> , 2015, 72, 83-89.	5.2	12
59	Enhancement of emission intensity of $\text{Sr}_2\text{Si}_5\text{N}_8$:Eu ²⁺ red-emitting phosphor by localized surface plasmon resonance of Ag nanoparticles with different morphologies. <i>RSC Advances</i> , 2016, 6, 52034-52039.	3.6	12
60	Synthesis and microwave dielectric properties of $\text{BaO-Sm}_2\text{O}_3-5\text{TiO}_2$ ceramics with NdAlO_3 additions. <i>Ceramics International</i> , 2016, 42, 14573-14580.	4.8	12
61	Synthesis and characterization of a multi-functional on-off fluorescent oxidized graphitic carbon nitride nanosensor for iodide, chromium(VI), and ascorbic acid. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11896-11902.	5.5	12
62	Mechanism of upconversion luminescence enhancement in $\text{Yb}^{3+}/\text{Er}^{3+}$ co-doped Y_2O_3 through Li^+ incorporation. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2819-2826.	2.8	12
63	Influence of Heat-Treatment Cycles on the Microstructure, Mechanical Properties, and Corrosion Resistance of Co-Cr Dental Alloys Fabricated by Selective Laser Melting. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 5252-5265.	2.5	12
64	Glass-ceramics in the $\text{CaO-MgO-Al}_2\text{O}_3\text{-SiO}_2$ system as potential dental restorative materials. <i>International Journal of Applied Ceramic Technology</i> , 2021, 18, 1938-1949.	2.1	12
65	Synthesis of Si, N co-Doped Nano-Sized TiO_2 with High Thermal Stability and Photocatalytic Activity by Mechanochemical Method. <i>Nanomaterials</i> , 2018, 8, 294.	4.1	11
66	Fabrication of Si_3N_4 nanowire/ $\text{Y}_2\text{Si}_2\text{O}_7$ composite superhydrophobic membrane for membrane distillation. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 2173-2180.	2.1	11
67	Development of narrow band emitting phosphors for backlighting displays and solid state lighting using a clean and green energy technology. <i>Journal of Luminescence</i> , 2022, 243, 118650.	3.1	11
68	Influence of heat treatment on the microstructure and the physical and mechanical properties of dental highly translucent zirconia. <i>Journal of Advanced Prosthodontics</i> , 2022, 14, 96.	2.6	11
69	Attenuation of post-infarction remodeling in rats by sustained myocardial growth hormone administration. <i>Growth Factors</i> , 2015, 33, 250-258.	1.7	10
70	Evaluation of adverse effects of particulate matter on human life. <i>Heliyon</i> , 2021, 7, e05968.	3.2	10
71	Preparation of porous biphasic .BETA.-TCP/HA bioceramics with a natural trabecular structure from calcined cancellous bovine bone. <i>Journal of the Ceramic Society of Japan</i> , 2010, 118, 52-56.	1.1	9
72	Influence of B_2O_3 on sintering behavior and the dielectric properties of $\text{Li}_2\text{MgSiO}_4$ ceramics. <i>Journal of the Ceramic Society of Japan</i> , 2012, 120, 233-237.	1.1	9

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73	Fine-sized BaSi ₃ Al ₃ O ₄ N ₅ :Eu ²⁺ phosphors prepared by solid-state reaction using BaF ₂ flux. Journal of Materials Research, 2013, 28, 2598-2604.	2.6	9
74	Synthesis, characterization and photo-catalytic performance of meso-porous Si ⁴⁺ /N co-doped nano-spherical anatase TiO ₂ with high thermal stability. RSC Advances, 2016, 6, 110741-110749.	3.6	9
75	Preparation of a Porous, Sintered and Reaction-Bonded Si ₃ N ₄ (SRBSN) Planar Membrane for Filtration of an Oil-in-Water Emulsion with High Flux Performance. Materials, 2018, 11, 990.	2.9	9
76	New physical insight in structural and electronic properties of InSb nano-sheet being rolled up into single-wall nanotubes. Applied Surface Science, 2019, 487, 550-557.	6.1	9
77	Synthesis of glass-ceramics in the Na ₂ O/K ₂ O-CaO-MgO-SiO ₂ -P ₂ O ₅ -CaF ₂ system as candidate materials for dental applications. International Journal of Applied Ceramic Technology, 2020, 17, 2025-2035.	2.1	9
78	Robust all-inorganic hydrophobic BN nanosheets coated β -sialon membrane for membrane distillation. Journal of the European Ceramic Society, 2022, 42, 2672-2677.	5.7	9
79	Nitride-Doped Sr ₄ Al ₁₄ O ₂₅ :Eu ²⁺ Phosphor with Improved Photoluminescence and Long Afterglow. ECS Journal of Solid State Science and Technology, 2019, 8, R75-R78.	1.8	8
80	Prolonged intra-myocardial growth hormone administration ameliorates post-infarction electrophysiologic remodeling in rats. Growth Factors, 2017, 35, 1-11.	1.7	7
81	Influence of rare earth substitution in Ca _{0.66} Ti _{0.66} R _{0.34} Al _{0.34} O ₃ (R=La, Sm, Nd) ceramics on crystal structure and microwave dielectric properties. Journal of Alloys and Compounds, 2017, 693, 454-461.	5.5	7
82	Sintering behavior, microstructure, and microwave dielectric properties of Ca _{0.66} Ti _{0.66} Sm _{0.34} Al _{0.34} O ₃ ceramics. Ceramics International, 2016, 42, 19036-19041.	4.8	6
83	Morphological engineering of silicon nitride hollow fiber membrane for oil-field-produced-water treatment. Ceramics International, 2019, 45, 10541-10549.	4.8	6
84	Editorial: (Thematic Issue: Novel Strategies for Cardiac Repair Post-Myocardial Infarction). Current Pharmaceutical Design, 2014, 20, 1925-1929.	1.9	5
85	Isolation of an ES-Derived Cardiovascular Multipotent Cell Population Based on VE-Cadherin Promoter Activity. Stem Cells International, 2016, 2016, 1-14.	2.5	3
86	Interfacial strength and microstructure of AlN/Cu joints produced by a novel brazing method facilitated by porous copper layer and Ag foil. Journal of Materials Science: Materials in Electronics, 2021, 32, 15826-15836.	2.2	3
87	Synthesis of nanosized AlN:Eu ²⁺ phosphors using a metal-organic precursor method. Journal of Materials Research, 2014, 29, 2466-2472.	2.6	2
88	Medium-term Electrophysiologic Effects of a Cellularized Scaffold Implanted in Rats After Myocardial Infarction. Cureus, 2018, 10, e2959.	0.5	2
89	COVID-19 persuaded lockdown impact on local environmental restoration in Pakistan. Environmental Monitoring and Assessment, 2022, 194, 272.	2.7	2
90	Attachment of blood erythrocytes on zirconium oxide under laminar flow. Journal of the Ceramic Society of Japan, 2011, 119, 120-124.	1.1	1

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91	A new, low cost, locking plate for the long-term fixation of a critical size bone defect in the rat femur: In vivo performance, biomechanical and finite element analysis. <i>Bio-Medical Materials and Engineering</i> , 2015, 25, 335-346.	0.6	1
92	Biomechanical and in vivo comparison of three fixation devices for the long lasting maintenance of a critical size bone defect in the rat femur — A proposed model for segmental bone defect research. , 2011, , .		0
93	DFT Study of Lead-Free Mixed-Halide Materials Cs ₂ X ₂ Y ₂ (X, Y = F, Cl, Br, I) for Optoelectronic Applications. <i>Journal of Electronic Materials</i> , 2021, 50, 5647-5655.	2.2	0