

# Simeon Agathopoulos

## List of Publications by Year in descending order

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93  
papers

2,115  
citations

186265

28  
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302126

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94  
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94  
docs citations

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times ranked

2036  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Robust all-inorganic hydrophobic BN nanosheets coated $\beta$ -sialon membrane for membrane distillation. <i>Journal of the European Ceramic Society</i> , 2022, 42, 2672-2677.	5.7	9
3	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
4	COVID-19 persuaded lockdown impact on local environmental restoration in Pakistan. <i>Environmental Monitoring and Assessment</i> , 2022, 194, 272.	2.7	2
5	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
6	Self-supported porous heterostructure WC/WO <sub>3</sub> ceramic electrode for hydrogen evolution reaction in acidic and alkaline media. <i>Journal of Advanced Ceramics</i> , 2022, 11, 1208-1221.	17.4	29
7	Broad band white-light-emitting Y <sub>5</sub> Si <sub>3</sub> O <sub>12</sub> N:Ce <sup>3+</sup> /Dy <sup>3+</sup> oxonitridosilicate phosphors for solid state lighting applications. <i>Journal of Luminescence</i> , 2021, 229, 117687.	3.1	17
8	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
9	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
10	Evaluation of adverse effects of particulate matter on human life. <i>Heliyon</i> , 2021, 7, e05968.	3.2	10
11	Superhydrophobic $\beta$ -Sialon-mullite ceramic membranes with high performance in water treatment. <i>Ceramics International</i> , 2021, 47, 8375-8381.	4.8	19
12	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
13	Interfacial strength and microstructure of AlN/Cu joints produced by a novel brazing method facilitated by porous copper layer and Ag foil. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 15826-15836.	2.2	3
14	Self-Supported Ceramic Electrode of 1T-2H MoS <sub>2</sub> Grown on the TiC Membrane for Hydrogen Production. <i>Chemistry of Materials</i> , 2021, 33, 6217-6226.	6.7	26
15	Highly Efficient and Robust MoS <sub>2</sub> Nanoflake-Modified-TiN-Ceramic-Membrane Electrode for Electrocatalytic Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2021, 4, 6730-6739.	5.1	17
16	Glass-ceramics in the CaO-MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> system as potential dental restorative materials. <i>International Journal of Applied Ceramic Technology</i> , 2021, 18, 1938-1949.	2.1	12
17	DFT Study of Lead-Free Mixed-Halide Materials Cs <sub>2</sub> X <sub>2</sub> Y <sub>2</sub> (X, Y = F, Cl, Br, I) for Optoelectronic Applications. <i>Journal of Electronic Materials</i> , 2021, 50, 5647-5655.	2.2	0
18	New physical insight into crystal structure, luminescence and optical properties of YPO <sub>4</sub> :Dy <sup>3+</sup> -Eu <sup>3+</sup> -Tb <sup>3+</sup> single-phase white-light-emitting phosphors. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152687.	5.5	53

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19	Hard SiOC Microbeads as a High-Performance Lithium-Ion Battery Anode. ACS Applied Energy Materials, 2020, 3, 10183-10191.	5.1	22
20	Synthesis of glass-ceramics in the Na <sub>2</sub> O/K <sub>2</sub> O-CaO-MgO-SiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> -CaF <sub>2</sub> system as candidate materials for dental applications. International Journal of Applied Ceramic Technology, 2020, 17, 2025-2035.	2.1	9
21	Mechanism of upconversion luminescence enhancement in Yb <sup>3+</sup> /Er <sup>3+</sup> co-doped Y <sub>2</sub> O <sub>3</sub> through Li <sup>+</sup> incorporation. Physical Chemistry Chemical Physics, 2020, 22, 2819-2826.	2.8	12
22	Production of calcium hexaluminate porous planar membranes with high morphological stability and low thermal conductivity. Journal of the European Ceramic Society, 2019, 39, 4202-4207.	5.7	14
23	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
24	Nitride-Doped Sr <sub>4</sub> Al <sub>14</sub> O <sub>25</sub> :Eu <sup>2+</sup> Phosphor with Improved Photoluminescence and Long Afterglow. ECS Journal of Solid State Science and Technology, 2019, 8, R75-R78.	1.8	8
25	Multifunctional Thin-Film Nanofiltration Membrane Incorporated with Reduced Graphene Oxide@TiO <sub>2</sub> @Ag Nanocomposites for High Desalination Performance, Dye Retention, and Antibacterial Properties. ACS Applied Materials & Interfaces, 2019, 11, 23535-23545.	8.0	73
26	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
27	High flux thin film nanocomposite membrane incorporated with functionalized TiO <sub>2</sub> @reduced graphene oxide nanohybrids for organic solvent nanofiltration. Chemical Engineering Science, 2019, 204, 99-109.	3.8	74
28	Fabrication of Si <sub>3</sub> N <sub>4</sub> nanowire/Si <sub>2</sub> O <sub>7</sub> composite superhydrophobic membrane for membrane distillation. International Journal of Applied Ceramic Technology, 2019, 16, 2173-2180.	2.1	11
29	SiO <sub>2</sub> nanoparticles modified Si <sub>3</sub> N <sub>4</sub> hollow fiber membrane for efficient oily wastewater microfiltration. Journal of Water Process Engineering, 2019, 29, 100799.	5.6	17
30	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
31	Effect of Bonding Agent on Metal-Ceramic Bond Strength between Co-Cr Fabricated with Selective Laser Melting and Dental Feldspathic Porcelain. Journal of Prosthodontics, 2019, 28, 1029-1036.	3.7	15
32	Porous Al <sub>2</sub> O <sub>3</sub> plates prepared by combing foaming and gel-tape casting methods for efficient collection of oil from water. Chemical Engineering Journal, 2019, 370, 658-665.	12.7	29
33	Morphological engineering of silicon nitride hollow fiber membrane for oil-field-produced-water treatment. Ceramics International, 2019, 45, 10541-10549.	4.8	6
34	Synthesis and characterization of a multi-functional on-off on fluorescent oxidized graphitic carbon nitride nanosensor for iodide, chromium( <sup>vi</sup> ), and ascorbic acid. Journal of Materials Chemistry C, 2019, 7, 11896-11902.	5.5	12
35	Luminescence properties and energy transfer in Ce <sup>3+</sup> /Tb <sup>3+</sup> -co-doped Y <sub>5</sub> Si <sub>3</sub> O <sub>12</sub> N oxynitride phosphors. Dyes and Pigments, 2019, 160, 675-682.	3.7	31
36	Novel fabrication processing of porous alumina/mullite membrane supports by combining direct foaming, sol-gel, and tape-casting methods. Materials Letters, 2019, 240, 140-143.	2.6	13

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37	Production and characterization of durable self-cleaning and engineering porous Al <sub>2</sub> O <sub>3</sub> /CaAl <sub>12</sub> O <sub>19</sub> ceramic membranes. Journal of the American Ceramic Society, 2019, 102, 3879-3886.	3.8	18
38	<sup>12</sup> -SiAlON ceramic membranes modified with SiO <sub>2</sub> nanoparticles with high rejection rate in oil-water emulsion separation. Ceramics International, 2019, 45, 4237-4242.	4.8	37
39	Fabrication of low thermal conductivity yttrium silicate ceramic flat membrane for membrane distillation. Journal of the European Ceramic Society, 2019, 39, 442-448.	5.7	31
40	Optimization of Ca <sup>2+</sup> content in alginate hydrogel injected in myocardium. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 223-231.	3.4	16
41	Crystallization behaviour and properties of BaO-CaO-B <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> glasses and glass-ceramics for LTCC applications. Ceramics International, 2018, 44, 10147-10153.	4.8	35
42	Influence of substitution of Al-O for Si-N on improvement of photoluminescence properties and thermal stability of Ba <sub>2</sub> Si <sub>5</sub> N <sub>8</sub> :Eu <sup>2+</sup> red emitting phosphors. Journal of Alloys and Compounds, 2018, 730, 249-254.	5.5	43
43	Synthesis, characterization, and biological properties of composites of hydroxyapatite and hexagonal boron nitride. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 2384-2392.	3.4	15
44	Amino functionalized silica nanoparticles incorporated thin film nanocomposite membrane with suppressed aggregation and high desalination performance. Polymer, 2018, 154, 200-209.	3.8	24
45	Preparation of a Porous, Sintered and Reaction-Bonded Si <sub>3</sub> N <sub>4</sub> (SRBSN) Planar Membrane for Filtration of an Oil-in-Water Emulsion with High Flux Performance. Materials, 2018, 11, 990.	2.9	9
46	Application of asymmetric Si <sub>3</sub> N <sub>4</sub> hollow fiber membrane for cross-flow microfiltration of oily waste water. Journal of the European Ceramic Society, 2018, 38, 4384-4394.	5.7	54
47	Synthesis of Si, N co-Doped Nano-Sized TiO <sub>2</sub> with High Thermal Stability and Photocatalytic Activity by Mechanochemical Method. Nanomaterials, 2018, 8, 294.	4.1	11
48	Crystal-site engineering for developing tunable green light emitting Ba <sub>9</sub> Lu <sub>2</sub> Si <sub>6</sub> O <sub>24</sub> :Eu <sup>2+</sup> phosphors for efficient white LEDs. Journal of Alloys and Compounds, 2018, 767, 374-381.	5.5	24
49	One-step synthesis of flower-like Si <sub>2</sub> N <sub>2</sub> O nanowires on the surface of porous SiO <sub>2</sub> ceramic membranes for membrane distillation. Materials Letters, 2018, 232, 74-77.	2.6	22
50	Fabrication and characterization of robust hydrophobic lotus leaf-like surface on Si <sub>3</sub> N <sub>4</sub> porous membrane via polymer-derived SiNCO inorganic nanoparticle modification. Ceramics International, 2018, 44, 16443-16449.	4.8	17
51	Medium-term Electrophysiologic Effects of a Cellularized Scaffold Implanted in Rats After Myocardial Infarction. Cureus, 2018, 10, e2959.	0.5	2
52	Prolonged intra-myocardial growth hormone administration ameliorates post-infarction electrophysiologic remodeling in rats. Growth Factors, 2017, 35, 1-11.	1.7	7
53	Porous <sup>12</sup> -Sialon planar membrane with a robust polymer-derived hydrophobic ceramic surface. Journal of Membrane Science, 2017, 535, 63-69.	8.2	53
54	A preparation method for Al/AlN ceramics substrates by using a CuO interlayer. Materials and Design, 2017, 130, 373-380.	7.0	14

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55	Single-Phase White Light-Emitting $\text{Ca}_9\text{Ba}(\text{PO}_3)_2\text{Si}_6\text{O}_{24}:\text{Eu}^{2+}/\text{Mn}^{2+}$ Phosphors. ACS Omega, 2017, 2, 6270-6277.	3.5	21
56	Novel $\text{Si}_3\text{N}_4$ 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
57	Synthesis and characterization of $\text{Ce}^{3+}/\text{Tb}^{3+}$ co-doped $\text{CaLa}_4\text{Si}_3\text{O}_{13}$ phosphors for application in white LED. Optical Materials, 2017, 72, 637-643.	3.6	34
58	Novel single-phase full-color emitting $\text{Ba}_9\text{Lu}_2\text{Si}_6\text{O}_{24}:\text{Ce}^{3+}/\text{Mn}^{2+}/\text{Tb}^{3+}$ phosphors for white LED applications. Journal of Materials Science, 2017, 52, 10927-10937.	3.7	33
59	Highly Stable Red-Emitting $\text{Sr}_2\text{Si}_5\text{N}_8:\text{Eu}^{2+}$ Phosphor with a Hydrophobic Surface. Journal of the American Ceramic Society, 2017, 100, 257-264.	3.8	34
60	Highly stable hydrophobic $\text{Si}_3\text{N}_4$ nanoparticle-modified silicon nitride membrane for zero-discharge water desalination. AIChE Journal, 2017, 63, 1272-1277.	3.6	44
61	Influence of rare earth substitution in $\text{Ca}_{0.66}\text{Ti}_{0.66}\text{R}_{0.34}\text{AlO}_3$ ( $\text{R}=\text{La}, \text{Sm}, \text{Nd}$ ) ceramics on crystal structure and microwave dielectric properties. Journal of Alloys and Compounds, 2017, 693, 454-461.	5.5	7
62	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
63	Preparation of $\text{Sr}_2\text{CaLi}_3\text{N}_4:\text{Eu}^{2+}$ Solid Solutions and Their Photoluminescence Properties. Journal of the American Ceramic Society, 2016, 99, 3273-3279.	3.8	28
64	Enhancement of emission intensity of $\text{Sr}_2\text{Si}_5\text{N}_8:\text{Eu}^{2+}$ red-emitting phosphor by localized surface plasmon resonance of Ag nanoparticles with different morphologies. RSC Advances, 2016, 6, 52034-52039.	3.6	12
65	Sintering behavior, microstructure, and microwave dielectric properties of $\text{Ca}_{0.66}\text{Ti}_{0.66}\text{Sm}_{0.34}\text{AlO}_3$ ceramics. Ceramics International, 2016, 42, 19036-19041.	4.8	6
66	Synthesis, characterization and photo-catalytic performance of meso-porous $\text{Si}_3\text{N}_4$ co-doped nano-spherical anatase $\text{TiO}_2$ with high thermal stability. RSC Advances, 2016, 6, 110741-110749.	3.6	9
67	Synthesis and microwave dielectric properties of $\text{BaO}-\text{Sm}_2\text{O}_3-5\text{TiO}_2$ ceramics with $\text{NdAlO}_3$ additions. Ceramics International, 2016, 42, 14573-14580.	4.8	12
68	Influence of N-anion-doping on the production and the photoluminescence properties of $\text{Ca}_2\text{SiO}_4:\text{Ce}^{3+}$ phosphors and the $\text{I}^2\text{I}^3$ phase transformation. Journal of Materials Chemistry C, 2016, 4, 3313-3320.	5.5	18
69	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. Bio-Medical Materials and Engineering, 2015, 25, 335-346.	0.6	1
70	Synthesis of mono-phase $\text{La}_2\text{Si}_6\text{O}_3\text{N}_8:\text{Ce}^{3+}, \text{Tb}^{3+}$ blue-green phosphors with direct silicon nitridation and their photoluminescence properties. Materials Research Bulletin, 2015, 72, 83-89.	5.2	12
71	Attenuation of post-infarction remodeling in rats by sustained myocardial growth hormone administration. Growth Factors, 2015, 33, 250-258.	1.7	10
72	Editorial: (Thematic Issue: Novel Strategies for Cardiac Repair Post-Myocardial Infarction). Current Pharmaceutical Design, 2014, 20, 1925-1929.	1.9	5

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73	Synthesis of nanosized AlN:Eu <sup>2+</sup> phosphors using a metal-organic precursor method. Journal of Materials Research, 2014, 29, 2466-2472.	2.6	2
74	Luminescence properties and energy transfer in AlN:Ce <sup>3+</sup> ,Tb <sup>3+</sup> phosphors. Materials Research Bulletin, 2014, 51, 224-227.	5.2	17
75	Luminescence properties and energy transfer in Al <sub>5</sub> O <sub>6</sub> N:Ce <sup>3+</sup> ,Tb <sup>3+</sup> phosphors. Journal of Luminescence, 2014, 149, 155-158.	3.1	26
76	Synthesis of Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce <sup>3+</sup> Phosphor by a Facile Hydrogen Iodide-Assisted Sol-Gel Method. Journal of the American Ceramic Society, 2013, 96, 701-703.	3.8	23
77	Short-term ventricular restraint attenuates post-infarction remodeling in rats. International Journal of Cardiology, 2013, 165, 278-284.	1.7	13
78	Fine-sized BaSi <sub>3</sub> Al <sub>3</sub> O <sub>4</sub> N <sub>5</sub> :Eu <sup>2+</sup> phosphors prepared by solid-state reaction using BaF <sub>2</sub> flux. Journal of Materials Research, 2013, 28, 2598-2604.	2.6	9
79	Luminescence and Structural Properties of High Stable Si <sup>3+</sup> -Doped BaMgAl <sub>10</sub> O <sub>17</sub> :Eu <sup>2+</sup> Phosphors Synthesized by a Mechanochemical Activation Route. Journal of the American Ceramic Society, 2013, 96, 2562-2569.	3.8	22
80	Influence of B <sub>2</sub> O <sub>3</sub> on sintering behavior and the dielectric properties of Li <sub>2</sub> MgSiO <sub>4</sub> ceramics. Journal of the Ceramic Society of Japan, 2012, 120, 233-237.	1.1	9
81	Influence of synthesis process on the dielectric properties of B-doped SiC powders. Ceramics International, 2012, 38, 3309-3315.	4.8	38
82	Combustion synthesis of ultra-fine SiC powders in low pressure N <sub>2</sub> -atmosphere. Ceramics International, 2012, 38, 4165-4171.	4.8	14
83	Attachment of blood erythrocytes on zirconium oxide under laminar flow. Journal of the Ceramic Society of Japan, 2011, 119, 120-124.	1.1	1
84	Synthesis of BaSi <sub>2</sub> O <sub>2</sub> N <sub>2</sub> :Ce <sup>3+</sup> ,Eu <sup>2+</sup> Phosphors and Determination of their Luminescence Properties. Journal of the American Ceramic Society, 2011, 94, 501-507.	3.8	52
85	Production of Ni-Doped SiC Nanopowders and their Dielectric Properties. Journal of the American Ceramic Society, 2011, 94, 1523-1527.	3.8	54
86	Enhanced Piezoelectric and Ferroelectric Properties of Nb <sub>2</sub> O <sub>5</sub> Modified Lead Zirconate Titanate-Based Composites. Journal of the American Ceramic Society, 2011, 94, 647-650.	3.8	43
87	Biomechanical and in vivo comparison of three fixation devices for the long lasting maintenance of a critical size bone defect in the rat femur &#x2014; A proposed model for segmental bone defect research. , 2011, , .		0
88	Preparation of porous biphasic .BETA.-TCP/HA bioceramics with a natural trabecular structure from calcined cancellous bovine bone. Journal of the Ceramic Society of Japan, 2010, 118, 52-56.	1.1	9
89	Microwave synthesis of Al-doped SiC powders and study of their dielectric properties. Materials Research Bulletin, 2010, 45, 247-250.	5.2	80
90	Numerical Simulation of Thermal Conductivity of Particle Filled Epoxy Composites. Journal of Electronic Packaging, Transactions of the ASME, 2009, 131, .	1.8	20

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91	Photoluminescence properties of Eu <sup>2+</sup> -activated CaSi <sub>2</sub> O <sub>2</sub> N <sub>2</sub> : Redshift and concentration quenching. Journal of Applied Physics, 2009, 106, .	2.5	46
92	Influence of mechanical activation on combustion synthesis of fine silicon carbide (SiC) powder. Powder Technology, 2009, 196, 229-232.	4.2	30
93	The influence of mechanochemical activation on combustion synthesis of Si <sub>3</sub> N <sub>4</sub> . Ceramics International, 2008, 34, 1267-1271.	4.8	15