

Chandrababu Naidu K

List of Publications by Year in descending order

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124
papers

2,225
citations

159585

30
h-index

265206

42
g-index

144
all docs

144
docs citations

144
times ranked

1219
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on Magnetocaloric Effect and Materials. Journal of Superconductivity and Novel Magnetism, 2018, 31, 1971-1979.	1.8	130
2	A review on perovskite solar cells (PSCs), materials and applications. Journal of Materiomics, 2021, 7, 940-956.	5.7	111
3	Dielectric, magnetic hyperthermia, and photocatalytic properties of ZnFe ₂ O ₄ nanoparticles synthesized by solvothermal reflux method. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	95
4	Microwave processed bulk and nano NiMg ferrites: A comparative study on X-band electromagnetic interference shielding properties. Materials Chemistry and Physics, 2017, 187, 164-176.	4.0	91
5	Hydrothermal synthesis of NiFe ₂ O ₄ nano-particles: structural, morphological, optical, electrical and magnetic properties. Bulletin of Materials Science, 2017, 40, 417-425.	1.7	70
6	Effect of rare earth elements on low temperature magnetic properties of Ni and Co-ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2019, 473, 228-235.	2.3	68
7	A review on biological and biomimetic materials and their applications. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	62
8	Electrical and impedance spectroscopy properties of hydrothermally synthesized Ba _{0.2} Sr _{0.8-y} La _y Fe ₁₂ O ₁₉ (y = 0.2 to 0.8) nanorods. Ceramics International, 2020, 46, 5894-5906.	4.8	58
9	Sol-gel synthesized and microwave heated Pb _{0.8-y} La _y Co _{0.2} TiO ₃ (y = 0.2 to 0.8) nanoparticles: Structural, morphological and dielectric properties. Ceramics International, 2018, 44, 18189-18199.	4.8	57
10	Hydrothermal synthesis of barium copper ferrite nanoparticles: Nanofiber formation, optical, and magnetic properties. Materials Chemistry and Physics, 2019, 236, 121807.	4.0	54
11	Structural and functional properties of sol-gel synthesized and microwave heated Pb _{0.8} Co _{0.2-z} La _z TiO ₃ (z = 0.05 to 0.2) nanoparticles. Ceramics International, 2018, 44, 19408-19420.	4.8	53
12	Optical, magnetic and ferroelectric properties of Ba _{0.2} Cu _{0.8-x} La _x Fe ₂ O ₄ (x = 0.2 to 0.6) nanoparticles. Ceramics International, 2019, 45, 7515-7523.	4.8	51
13	Microwave assisted solid state reaction method: Investigations on electrical and magnetic properties NiMgZn ferrites. Materials Chemistry and Physics, 2016, 181, 432-443.	4.0	46
14	Microwave processed NiMg ferrite: Studies on structural and magnetic properties. Journal of Magnetism and Magnetic Materials, 2016, 420, 109-116.	2.3	44
15	Microwave heated lead cobalt titanate nanoparticles synthesized by sol-gel technique: Structural, morphological, dielectric, impedance and ferroelectric properties. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 242, 23-30.	3.5	43
16	Investigations on functional properties of hydrothermally synthesized Ba _{1-x} Sr _x Fe ₁₂ O ₁₉ (x = 0.0 to 0.8) nanoparticles. Materials Science in Semiconductor Processing, 2019, 94, 136-150.	4.0	43
17	Barium titanate microspheres by low temperature hydrothermal method: studies on structural, morphological, and optical properties. Journal of Asian Ceramic Societies, 2018, 6, 1-6.	2.3	42
18	Effect of calcination temperature on optical, magnetic and dielectric properties of Sol-Gel synthesized Ni _{0.2} Mg _{0.8-x} Zn _x Fe ₂ O ₄ (x = 0.0 to 0.8). Ceramics International, 2020, 46, 11515-11529.	4.8	42

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19	Effect of pH value on structural and magnetic properties of CuFe_2O_4 nanoparticles synthesized by low temperature hydrothermal technique. <i>Materials Research Express</i> , 2018, 5, 095025.	1.6	41
20	Magnetic properties of hydrothermally synthesized $\text{Ba}_{1-x}\text{Sr}_x\text{Fe}_{12}\text{O}_{19}$ ($x = 0.0-0.8$) nanomaterials. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	41
21	Grain and grain boundary conduction mechanism in sol-gel synthesized and microwave heated $\text{Pb}_{0.8-y}\text{La}_y\text{Co}_{0.2}\text{TiO}_3$ ($y = 0.2-0.8$) nanofibers. <i>Materials Chemistry and Physics</i> , 2019, 223, 241-248.	4.0	40
22	Investigations on transport, impedance and electromagnetic interference shielding properties of microwave processed NiMg ferrites. <i>Materials Research Bulletin</i> , 2017, 89, 125-138.	5.2	39
23	Structural, morphological and optical properties of $\text{Ba}_{1-x}\text{Cu}_x\text{TiO}_3$ ($x = 0.2, 0.4, 0.6, 0.8$) nanoparticles synthesized by hydrothermal method. <i>Materials Chemistry and Physics</i> , 2018, 215, 310-315.	4.0	39
24	Structural and dielectric properties of superparamagnetic iron oxide nanoparticles (SPIONs) stabilized by sugar solutions. <i>Materials Science-Poland</i> , 2018, 36, 123-133.	1.0	36
25	Structural, morphological, electrical, impedance and ferroelectric properties of BaO-ZnO-TiO_2 ternary system. <i>Journal of the Australian Ceramic Society</i> , 2019, 55, 201-218.	1.9	36
26	Multiferroic Nature of Microwave Processed and Sol-Gel Synthesized $\text{NanoPb}_{1-x}\text{Co}_x\text{TiO}_3$ ($x = 0.2-0.8$) Ceramics. <i>Crystal Research and Technology</i> , 2018, 53, 1800139.	1.3	33
27	Ceramic Nanoparticle Synthesis at Lower Temperatures for LTCC and MMIC Technologies. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-8.	2.1	33
28	Induced dielectric behavior in high dense $\text{Al}_x\text{La}_{1-x}\text{TiO}_3$ ($x = 0.2-0.8$) nanospheres. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 20253-20264.	2.2	33
29	Structural Characterization and Dielectric Studies of Superparamagnetic Iron Oxide Nanoparticles. <i>Journal of the Korean Ceramic Society</i> , 2018, 55, 230-238.	2.3	33
30	Microwave Processed NiMgZn Ferrites for Electromagnetic Interference Shielding Applications. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-7.	2.1	32
31	Dielectric, Magnetic Hyperthermia and Photocatalytic Properties of $\text{Mg}_x\text{Zn}_{1-x}\text{Fe}_y\text{O}_4$ Nanocrystals. <i>IEEE Transactions on Magnetics</i> , 2020, 56, 1-7.	2.1	32
32	Effect of Nonmagnetic Zn^{2+} Cations on Initial Permeability of Microwave Treated NiMg Ferrites. <i>International Journal of Applied Ceramic Technology</i> , 2016, 13, 1090-1095.	2.1	27
33	Nonenzymatic electrochemical sensor based on metal oxide, MO (M= Cu, Ni, Zn, and Fe) nanomaterials for neurotransmitters: An abridged review. <i>Sensors International</i> , 2020, 1, 100047.	8.4	24
34	AC-electrical conductivity, magnetic susceptibility, dielectric modulus and impedance studies of sol-gel processed nano-NiMgZn ferrites. <i>Materials Chemistry and Physics</i> , 2021, 258, 123902.	4.0	24
35	Structural and ferroelectric properties of microwave heated lead cobalt titanate nanoparticles synthesized by sol-gel technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 4738-4742.	2.2	21
36	Structural transformation and high negative dielectric constant behavior in $(1-x)(\text{AlO} \cdot 2\text{LaO} \cdot 8\text{TiO}_3) + x(\text{BiFeO}_3)$ ($x = 0.2-0.8$) nanocomposites. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 122, 114204.	2.7	21

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37	Nanorods like microstructure, photocatalytic activity and ac-electrical properties of (1-x) (Al _{0.2} La _{0.8} TiO ₃) \hat{A} + \hat{A} (x) (BaTiO ₃) (x \hat{A} = \hat{A} 0.2, 0.4, 0.6 & 0.8) nanocomposites. Chemical Physics Letters, 2020, 2.6 752, 137552.		20
38	Temperature and frequency dependence of complex impedance parameters of microwave sintered NiMg ferrites. Journal of the Australian Ceramic Society, 2019, 55, 541-548.	1.9	19
39	Negative dielectric behavior in tetragonal La _{0.8} Co _{0.2-x} EuxTiO ₃ (x \hat{A} = \hat{A} 0.01 \hat{A} “0.04) nanorods. Materials Characterization, 2020, 166, 110425.	4.4	18
40	Defect dipole polarization mechanism in low-dimensional europium substituted Al _{0.8} La _{0.2} TiO ₃ nanostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 120, 114058.	2.7	18
41	A Review on Metamaterials for Device Applications. Crystals, 2021, 11, 518.	2.2	18
42	Synthesis and characterization of pure and Cu doped CeO ₂ nanoparticles: photocatalytic and antibacterial activities evaluation. Biointerface Research in Applied Chemistry, 2020, 10, 5306-5311.	1.0	18
43	Magnetic and antimicrobial properties of cobalt \hat{A} zinc ferrite nanoparticles synthesized by citrate \hat{A} gel method. International Journal of Applied Ceramic Technology, 2019, 16, 1944-1953.	2.1	17
44	Synthesis of nano-NiXFe ₂ O ₄ (X \hat{A} %= \hat{A} %Mg/Co) by citrate-gel method: structural, morphological and low-temperature magnetic properties. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	16
45	A review on giant piezoelectric coefficient, materials and applications. Biointerface Research in Applied Chemistry, 2019, 9, 4205-4216.	1.0	16
46	Na ₃ MnPO ₄ CO ₃ as cathode for aqueous sodium ion batteries: Synthesis and electrochemical characterization. Materials Chemistry and Physics, 2020, 248, 122952.	4.0	15
47	Structural, morphological, optical, magnetic and ferroelectric properties of Ba _{0.2} La _{0.8} Fe ₂ O ₄ nanofibers. Biointerface Research in Applied Chemistry, 2019, 9, 4243-4247.	1.0	15
48	Optical and functional properties of hydrothermally synthesized tetragonal Ba _{0.4} /sub>Cu _{0.6} \hat{A} x \hat{A} /sub>La _x /sub>TiO ₃ (x \hat{A} = \hat{A} 0.2 \hat{A} “0.6) nanoparticles. Materials Research Express, 2020, 7, 015037.	1.6	14
49	Electrochemical Detection of Dopamine and Tyrosine using Metal oxide (MO, M=Cu and Ni) Modified Graphite Electrode: a Comparative Study. Biointerface Research in Applied Chemistry, 2020, 10, 6460-6473.	1.0	14
50	Photocatalytic Activity, Negative AC \hat{A} Electrical Conductivity, Dielectric Modulus, and Impedance Properties in 0.6 (Al _{0.2} /sub>La _{0.8} /sub>TiO ₃) + 0.4 (BiFeO ₃ /sub>) Nanocomposite. Crystal Research and Technology, 2020, 55, 2000068.	1.3	13
51	Insights into the Dielectric Loss Mechanism of Bianisotropic FeSi/SiC Composite Materials. ACS Omega, 2020, 5, 25968-25972.	3.5	12
52	BaSrLaFe ₁₂ O ₁₉ nanorods: optical and magnetic properties. Journal of Materials Science: Materials in Electronics, 2020, 31, 8022-8032.	2.2	12
53	Structural and electrical studies of excessively Sm ₂ O ₃ substituted soft PZT nanoceramics. Ceramics International, 2021, 47, 31294-31301.	4.8	12
54	A review on the origin of nanofibers/nanorods structures and applications. Journal of Materials Science: Materials in Medicine, 2021, 32, 68.	3.6	11

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55	Simultaneous detection of dopamine, tyrosine and ascorbic acid using NiO/graphene modified graphite electrode. <i>Biointerface Research in Applied Chemistry</i> , 2020, 10, 5599-5609.	1.0	11
56	Iron deficient $\text{Ba}_{1-x}\text{Ni}_x\text{Mn}_x\text{Fe}_{12}\text{O}_{19}$ ($x=0.0-0.5$) hexagonal plates: single-domain magnetic structure and dielectric properties. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	10
57	Structural and dielectric properties of CuO-doped SrTiO_3 ceramics. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	9
58	Optical and electronic properties of copper and cobalt substituted nano $\text{SrBaFe}_{12}\text{O}_{19}$ synthesized by sol-gel autocombustion method. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	9
59	Preparation, characterization and dielectric properties of sodium alginate/titanium dioxide composite membranes. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	9
60	Structural and Magnetic Properties of $\text{CdCoFe}_2\text{O}_4$ Nanoparticles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 1039-1044.	1.8	8
61	Structural and luminescence properties of Dy^{3+} -doped $\text{La}_2(\text{MoO}_4)_3$ phosphors. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	8
62	Phase transformation, nanorod-like morphology, wide bandgap, and dielectric properties of $(\text{Al}_{0.2}\text{La}_{0.8}\text{TiO}_3)_x(\text{BaTiO}_3)_{1-x}$ ($x=0.2-0.8$) nanocomposites. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 9293-9305.	2.1	7
63	Superparamagnetic and photocatalytic activity of $\text{CoCe}_{0.02}\text{Dy}_{0.02}\text{Fe}_{1.96}\text{O}_4$ nanoparticles synthesized by citrate-gel autocombustion technique. <i>Biointerface Research in Applied Chemistry</i> , 2019, 9, 4164-4167.	1.0	7
64	Tetragonal structure and dielectric behaviour of rare-earth substituted $\text{La}_{0.8}\text{Co}_{0.16-x}\text{Eu}_{0.04}\text{Gd}_x\text{TiO}_3$ ($x=0.04-0.16$) nanorods. <i>Materials Chemistry and Physics</i> , 2022, 278, 125598.	4.0	7
65	Ferroelectric behaviour of microwave sintered iron deficient $\text{PbFe}_{12}\text{O}_{19}$. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	6
66	Optical and luminescence properties of pure, iron-doped, and glucose capped ZnO nanoparticles. <i>Results in Physics</i> , 2020, 19, 103508.	4.1	6
67	Structural, morphological and electronic properties of cadmium cobalt ferrite nanoparticles. <i>Biointerface Research in Applied Chemistry</i> , 2020, 10, 4752-4763.	1.0	6
68	Phase change and ferroelectric nature of microwave-heated lead cobalt titanate nanoparticles prepared by sol-gel method. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 130-137.	2.1	5
69	Hexagonal microstructure, magnetic and dielectric properties of iron deficient $\text{Ba}_{1-x}\text{Ni}_x\text{Zn}_x\text{Fe}_{12}\text{O}_{19}$ ($x=0.0-0.5$) hexaferrites. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	5
70	SnS-C quantum dot modified glassy carbon electrode for electrochemical detection of dopamine. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	5
71	Microwave Hydrothermal Synthesis: Structural and Dielectric Properties of nano MgFe_2O_4 Ceramics. <i>Materials Today: Proceedings</i> , 2016, 3, 3810-3813.	1.8	4
72	Effect of Argon/Oxygen Flow Rate Ratios on DC Magnetron Sputtered Nano Crystalline Zirconium Titanate Thin Films. <i>Jom</i> , 2016, 68, 1647-1652.	1.9	4

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73	Effect of chromium on structural, morphological and electrical properties of lithium ferrite nanoparticles. SN Applied Sciences, 2019, 1, 1.	2.9	4
74	Meteoric synthesis of Luminescent Fe ₂ O ₃ Nanoparticles: A potential Cytotoxic, Antioxidant & Bactericidal agent. International Journal of Applied Ceramic Technology, 2020, 17, 2768-2778.	2.1	4
75	Stability of 2D and 3D Perovskites Due to Inhibition of Light-Induced Decomposition. Journal of Electronic Materials, 2020, 49, 7072-7084.	2.2	4
76	Electrochemical aspects of metal-organic frameworks. , 2021, , 65-109.		4
77	Effect of Microwave Heat Treatment on Hydrothermal Synthesis of Nano-MgFe ₂ O ₄ . Journal of Superconductivity and Novel Magnetism, 2020, 33, 417-425.	1.8	3
78	Synthesis and Electrochemical Characterization of NaCoO ₂ as Cathode Material in 2M NaOH Aqueous Electrolyte. ChemistrySelect, 2021, 6, 1874-1881.	1.5	3
79	Colossal dielectric behavior in Al _{0.8} Cd _y La _{0.2-y} TiO ₃ (y = 0.01-0.04) nanostructures. Journal of Materials Science: Materials in Electronics, 2021, 32, 8017-8032.	2.2	3
80	Structure, morphology, dielectric, and impedance properties of (1-x) (Al _{0.2} La _{0.8} TiO ₃) + (x) (CuTiO ₃) (x = 0.2-0.8) nanocomposites. Journal of Materials Science: Materials in Electronics, 2021, 32, 21225-21236.	2.2	3
81	Significant of biosurfactants in the lubrication, mineral flotation, and petroleum recovery. , 2021, , 329-346.		3
82	Structural and Dielectric Properties of (1-x) (Al _{0.2} La _{0.8} TiO ₃) + (x) (BiZnFeO ₃) (x = 0.2-0.8) nanocomposites. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 4512-4522.	3.7	3
83	Optical bandgap and ferroelectric studies of Pb _{0.8-y} La _y Co _{0.2} TiO ₃ (y = 0.2 to 0.8) synthesized by microwave irradiation processed sol-gel technique. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2019, 10, 035014.	1.5	2
84	Electrochemical characterization and biological applications of luminescent zirconia quantum dots. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	2
85	Titanium-based metal-organic frameworks for photocatalytic applications. , 2021, , 37-63.		2
86	Magnetic properties of Cu and Al doped nano BaFe ₁₂ O ₁₉ ceramics. Biointerface Research in Applied Chemistry, 2020, 10, 5455-5459.	1.0	2
87	Structural, morphological, and magnetic properties of copper zinc cobalt ferrites systems nanocomposites. Biointerface Research in Applied Chemistry, 2020, 10, 6015-6019.	1.0	2
88	Sustainable Microwave Assisted Synthesis and Anti-proliferative Response of Starch-Based CNT-IO and CNT-ZO Nanocomposites: A Comparative Study. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 1712-1723.	3.7	2
89	Spectroscopic Properties of NiO, PbO, CaO and MgO Ionic Crystals Synthesized by Ball Milling Method. Recent Patents on Materials Science, 2019, 11, 97-107.	0.5	1
90	Electrochemical Green Synthesis. Advances in Science, Technology and Innovation, 2021, , 267-276.	0.4	1

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91	Preparation and characterization using Tectona Grandis natural fiber for the green composite polymer matrix. <i>Materials Today: Proceedings</i> , 2021, 47, 3703-3710.	1.8	1
92	Materials for Conversion of CO ₂ . <i>Biointerface Research in Applied Chemistry</i> , 2021, 12, 486-497.	1.0	1
93	Conducting Polymer-Derived Materials for Batteries. , 2019, , 65-78.		1
94	Electrochemical study of anatase TiO ₂ in aqueous sodium-ion electrolytes. <i>Biointerface Research in Applied Chemistry</i> , 2020, 10, 5843-5848.	1.0	1
95	Surface Morphology Induced Inorganic Materials for Supercapacitors. , 2019, , 213-238.		1
96	Expanding energy prospects of metal-organic frameworks. , 2021, , 139-151.		0
97	Permeable metal-organic frameworks for fuel (gas) storage applications. , 2021, , 111-126.		0
98	Excessively paramagnetic metal organic framework nanocomposites. , 2021, , 127-138.		0
99	Development of hybrid organic-inorganic perovskite (HOIP) composites. , 2021, , 225-237.		0
100	Metal-organic frameworkâ€‘based materials and renewable energy. , 2021, , 153-166.		0
101	Niobium Based Materials for Supercapacitors. , 2019, , 1-15.		0
102	Corrosion in Electronics. , 2020, , 38-50.		0
103	Testing the Types of Corrosion. , 2020, , 1-16.		0
104	Marine Corrosion. , 2020, , 174-202.		0
105	Corrosion in Reinforcement Cement Concrete. , 2020, , 81-94.		0
106	Anti-Corrosion Coating Mechanisms. , 2020, , 17-37.		0
107	Corrosion and Corrosion Protection in Drinking Water Systems. , 2020, , 65-80.		0
108	Corrosion of Nuclear Waste Systems. , 2020, , 109-120.		0

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109	Corrosion in Chemical and Fertilizer Industries. , 2020, , 164-173.		0
110	Environmental Cracking of High-Strength Aluminum Alloys. , 2020, , 95-108.		0
111	Power Plant Corrosion. , 2020, , 147-163.		0
112	Corrosion of Polymer Materials. , 2020, , 51-64.		0
113	Heterostructure Nanomaterials for Supercapacitor Applications. , 2020, , .		0
114	Advanced Ceramics for Biomedical Applications. Frontiers in Ceramic Science, 2020, , 146-156.	0.0	0
115	Advanced Ceramics for Piezoelectric Actuators. Frontiers in Ceramic Science, 2020, , 1-11.	0.0	0
116	Advanced Ceramics for Effective Electromagnetic Interference Shields. Frontiers in Ceramic Science, 2020, , 80-94.	0.0	0
117	Advanced Ceramics for Antimicrobial Applications. Frontiers in Ceramic Science, 2020, , 157-169.	0.0	0
118	Advanced Ceramics for Thermoelectric Power Generation. Frontiers in Ceramic Science, 2020, , 39-50.	0.0	0
119	Advanced Ceramics for Supercapacitors. Frontiers in Ceramic Science, 2020, , 12-27.	0.0	0
120	Advanced Ceramics for Magnetocaloric Effect in Refrigerators. Frontiers in Ceramic Science, 2020, , 28-38.	0.0	0
121	Advanced Ceramics for Microwave Absorber Applications. Frontiers in Ceramic Science, 2020, , 51-65.	0.0	0
122	Advanced Ceramics for Ferroelectric Devices. Frontiers in Ceramic Science, 2020, , 95-105.	0.0	0
123	Advanced Ceramics for 3D Printing Applications. Frontiers in Ceramic Science, 2020, , 135-145.	0.0	0
124	Graphene Oxide Decorated Tin Sulphide Quantum Dots for Electrochemical Detection of Dopamine and Tyrosine. Journal of Inorganic and Organometallic Polymers and Materials, 0, , .	3.7	0