

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	Tetragonal structure and dielectric behaviour of rare-earth substituted $\text{La}_{0.8}\text{Co}_{0.16-x}\text{Eu}_{0.04}\text{Gd}_x\text{TiO}_3$ ($x = 0.04 \leq x \leq 0.16$) nanorods. <i>Materials Chemistry and Physics</i> , 2022, 278, 125598.	4.0	7
2	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
3	Sustainable Microwave Assisted Synthesis and Anti-proliferative Response of Starch-Based CNT-IO and CNT-ZO Nanocomposites: A Comparative Study. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 1712-1723.	3.7	2
4	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
5	Expanding energy prospects of metal-organic frameworks. , 2021, , 139-151.		0
6	Titanium-based metal-organic frameworks for photocatalytic applications. , 2021, , 37-63.		2
7	Permeable metal-organic frameworks for fuel (gas) storage applications. , 2021, , 111-126.		0
8	Excessively paramagnetic metal organic framework nanocomposites. , 2021, , 127-138.		0
9	Electrochemical Green Synthesis. <i>Advances in Science, Technology and Innovation</i> , 2021, , 267-276.	0.4	1
10	Electrochemical aspects of metal-organic frameworks. , 2021, , 65-109.		4
11	Development of hybrid organic-inorganic perovskite (HOIP) composites. , 2021, , 225-237.		0
12	Synthesis and Electrochemical Characterization of NaCoO_2 as Cathode Material in 2M NaOH Aqueous Electrolyte. <i>ChemistrySelect</i> , 2021, 6, 1874-1881.	1.5	3
13	Preparation and characterization using <i>Tectona Grandis</i> natural fiber for the green composite polymer matrix. <i>Materials Today: Proceedings</i> , 2021, 47, 3703-3710.	1.8	1
14	Colossal dielectric behavior in $\text{Al}_{0.8}\text{Gd}_y\text{La}_{0.2-y}\text{TiO}_3$ ($y = 0.01 \leq y \leq 0.04$) nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 8017-8032.	2.2	3
15	Materials for Conversion of CO_2 . <i>Biointerface Research in Applied Chemistry</i> , 2021, 12, 486-497.	1.0	1
16	A Review on Metamaterials for Device Applications. <i>Crystals</i> , 2021, 11, 518.	2.2	18
17	A review on the origin of nanofibers/nanorods structures and applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2021, 32, 68.	3.6	11
18	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

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19	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
20	A review on perovskite solar cells (PSCs), materials and applications. Journal of Materiomics, 2021, 7, 940-956.	5.7	111
21	Structural and electrical studies of excessively Sm ₂ O ₃ substituted soft PZT nanoceramics. Ceramics International, 2021, 47, 31294-31301.	4.8	12
22	Metal-organic framework-based materials and renewable energy. , 2021, , 153-166.		0
23	Significant of biosurfactants in the lubrication, mineral flotation, and petroleum recovery. , 2021, , 329-346.		3
24	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
25	Hexagonal microstructure, magnetic and dielectric properties of iron deficient Ba _{Nix} Zn _x Fe _{12-2x} O ₁₉ (x = 0.0-0.5) hexaferrites. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	5
26	Structural and Magnetic Properties of CdCoFe ₂ O ₄ Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1039-1044.	1.8	8
27	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
28	Optical and functional properties of hydrothermally synthesized tetragonal Ba _{0.4} Cu _{0.6-x} La _x TiO ₃ (x = 0.2-0.6) nanoparticles. Materials Research Express, 2020, 7, 015037.	1.6	14
29	Electrical and impedance spectroscopy properties of hydrothermally synthesized Ba _{0.2} Sr _{0.8-y} La _y Fe ₁₂ O ₁₉ (y = 0.2-0.8) nanorods. Ceramics International, 2020, 46, 5894-5906.	4.8	58
30	Synthesis of nano-Ni _x Fe _{2-4x} O ₄ (x = 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
31	Optical and luminescence properties of pure, iron-doped, and glucose capped ZnO nanoparticles. Results in Physics, 2020, 19, 103508.	4.1	6
32	Insights into the Dielectric Loss Mechanism of Bianisotropic FeSi/SiC Composite Materials. ACS Omega, 2020, 5, 25968-25972.	3.5	12
33	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
34	Dielectric, Magnetic Hyperthermia and Photocatalytic Properties of Mg _{0.5} Zn _{0.5} Fe _{0.5} O ₄ Nanocrystals. IEEE Transactions on Magnetics, 2020, 56, 1-7.	2.1	32
35	Electrochemical characterization and biological applications of luminescent zirconia quantum dots. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	2
36	Stability of 2D and 3D Perovskites Due to Inhibition of Light-Induced Decomposition. Journal of Electronic Materials, 2020, 49, 7072-7084.	2.2	4

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37	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
38	Structural transformation and high negative dielectric constant behavior in (1-x) (Al _{0.2} La _{0.8} TiO ₃) + (x) (BiFeO ₃) (x = 0.2 to 0.8) nanocomposites. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 122, 114204.	2.7	21
39	Negative dielectric behavior in tetragonal La _{0.8} Co _{0.2-x} EuxTiO ₃ (x = 0.01 to 0.04) nanorods. <i>Materials Characterization</i> , 2020, 166, 110425.	4.4	18
40	Nanorods like microstructure, photocatalytic activity and ac-electrical properties of (1-x) (Al _{0.2} La _{0.8} TiO ₃) + (x) (BaTiO ₃) (x = 0.2, 0.4, 0.6 & 0.8) nanocomposites. <i>Chemical Physics Letters</i> , 2020, 2.6 752, 137552.	2.6	20
41	Iron deficient BaNixMnxFe _{12-2x} O ₁₉ (x = 0.0 to 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
42	Defect dipole polarization mechanism in low-dimensional europium substituted Al _{0.8} La _{0.2} TiO ₃ nanostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 120, 114058.	2.7	18
43	BaSrLaFe ₁₂ O ₁₉ nanorods: optical and magnetic properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 8022-8032.	2.2	12
44	Effect of calcination temperature on optical, magnetic and dielectric properties of Sol-Gel synthesized Ni _{0.2} Mg _{0.8-x} ZnxFe ₂ O ₄ (x = 0.0 to 0.8). <i>Ceramics International</i> , 2020, 46, 11515-11529.	4.8	42
45	Phase transformation, nanorod-like morphology, wide bandgap, and dielectric properties of (1-x) (Al _{0.2} La _{0.8} TiO ₃) + (x) (BaTiO ₃) (x = 0.2 to 0.8) nanocomposites. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 9293-9305.	2.3	7
46	Na ₃ MnPO ₄ CO ₃ as cathode for aqueous sodium ion batteries: Synthesis and electrochemical characterization. <i>Materials Chemistry and Physics</i> , 2020, 248, 122952.	4.0	15
47	Photocatalytic Activity, Negative AC Electrical Conductivity, Dielectric Modulus, and Impedance Properties in 0.6 (Al _{0.2} La _{0.8} TiO ₃) + 0.4 (BiFeO ₃) Nanocomposite. <i>Crystal Research and Technology</i> , 2020, 55, 2000068.	1.3	13
48	A review on biological and biomimetic materials and their applications. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	62
49	Structural, morphological and electronic properties of cadmium cobalt ferrite nanoparticles. <i>Biointerface Research in Applied Chemistry</i> , 2020, 10, 4752-4763.	1.0	6
50	Synthesis and characterization of pure and Cu doped CeO ₂ nanoparticles: photocatalytic and antibacterial activities evaluation. <i>Biointerface Research in Applied Chemistry</i> , 2020, 10, 5306-5311.	1.0	18
51	Magnetic properties of Cu and Al doped nano BaFe ₁₂ O ₁₉ ceramics. <i>Biointerface Research in Applied Chemistry</i> , 2020, 10, 5455-5459.	1.0	2
52	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
53	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
54	Electrochemical Detection of Dopamine and Tyrosine using Metal oxide (MO, M=Cu and Ni) Modified Graphite Electrode: a Comparative Study. <i>Biointerface Research in Applied Chemistry</i> , 2020, 10, 6460-6473.	1.0	14

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55	Corrosion in Electronics. , 2020, , 38-50.		0
56	Testing the Types of Corrosion. , 2020, , 1-16.		0
57	Marine Corrosion. , 2020, , 174-202.		0
58	Corrosion in Reinforcement Cement Concrete. , 2020, , 81-94.		0
59	Anti-Corrosion Coating Mechanisms. , 2020, , 17-37.		0
60	Corrosion and Corrosion Protection in Drinking Water Systems. , 2020, , 65-80.		0
61	Corrosion of Nuclear Waste Systems. , 2020, , 109-120.		0
62	Corrosion in Chemical and Fertilizer Industries. , 2020, , 164-173.		0
63	Environmental Cracking of High-Strength Aluminum Alloys. , 2020, , 95-108.		0
64	Power Plant Corrosion. , 2020, , 147-163.		0
65	Corrosion of Polymer Materials. , 2020, , 51-64.		0
66	Heterostructure Nanomaterials for Supercapacitor Applications. , 2020, , .		0
67	Structural, morphological, and magnetic properties of copper zinc cobalt ferrites systems nanocomposites. Biointerface Research in Applied Chemistry, 2020, 10, 6015-6019.	1.0	2
68	Advanced Ceramics for Biomedical Applications. Frontiers in Ceramic Science, 2020, , 146-156.	0.0	0
69	Advanced Ceramics for Piezoelectric Actuators. Frontiers in Ceramic Science, 2020, , 1-11.	0.0	0
70	Advanced Ceramics for Effective Electromagnetic Interference Shields. Frontiers in Ceramic Science, 2020, , 80-94.	0.0	0
71	Advanced Ceramics for Antimicrobial Applications. Frontiers in Ceramic Science, 2020, , 157-169.	0.0	0
72	Advanced Ceramics for Thermoelectric Power Generation. Frontiers in Ceramic Science, 2020, , 39-50.	0.0	0

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73	Advanced Ceramics for Supercapacitors. <i>Frontiers in Ceramic Science</i> , 2020, , 12-27.	0.0	0
74	Advanced Ceramics for Magnetocaloric Effect in Refrigerators. <i>Frontiers in Ceramic Science</i> , 2020, , 28-38.	0.0	0
75	Advanced Ceramics for Microwave Absorber Applications. <i>Frontiers in Ceramic Science</i> , 2020, , 51-65.	0.0	0
76	Advanced Ceramics for Ferroelectric Devices. <i>Frontiers in Ceramic Science</i> , 2020, , 95-105.	0.0	0
77	Advanced Ceramics for 3D Printing Applications. <i>Frontiers in Ceramic Science</i> , 2020, , 135-145.	0.0	0
78	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
79	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
80	Hydrothermal synthesis of barium copper ferrite nanoparticles: Nanofiber formation, optical, and magnetic properties. <i>Materials Chemistry and Physics</i> , 2019, 236, 121807.	4.0	54
81	Optical bandgap and ferroelectric studies of Pb _{0.8} La _y Co _{0.2} TiO ₃ (y = 0.2 to 0.8) synthesized by microwave irradiation processed sol-gel technique. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2019, 10, 035014.	1.5	2
82	Magnetic properties of hydrothermally synthesized Ba _{1-x} Sr _x Fe ₁₂ O ₁₉ (x = 0.0-0.8) nanomaterials. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	41
83	Induced dielectric behavior in high dense Al _x La _{1-x} TiO ₃ (x = 0.2-0.8) nanospheres. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 20253-20264.	2.2	33
84	Spectroscopic Properties of NiO, PbO, CaO and MgO Ionic Crystals Synthesized by Ball Milling Method. <i>Recent Patents on Materials Science</i> , 2019, 11, 97-107.	0.5	1
85	Dielectric, magnetic hyperthermia, and photocatalytic properties of ZnFe ₂ O ₄ nanoparticles synthesized by solvothermal reflux method. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	95
86	Magnetic and antimicrobial properties of cobalt-zinc ferrite nanoparticles synthesized by citrate-gel method. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 1944-1953.	2.1	17
87	Microwave heated lead cobalt titanate nanoparticles synthesized by sol-gel technique: Structural, morphological, dielectric, impedance and ferroelectric properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 242, 23-30.	3.5	43
88	Optical and electronic properties of copper and cobalt substituted nano SrBaFe ₁₂ O ₁₉ synthesized by sol-gel autocombustion method. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	9
89	Effect of chromium on structural, morphological and electrical properties of lithium ferrite nanoparticles. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	4
90	Investigations on functional properties of hydrothermally synthesized Ba _{1-x} Sr _x Fe ₁₂ O ₁₉ (x = 0.0-0.8) nanoparticles. <i>Materials Science in Semiconductor Processing</i> , 2019, 94, 136-150.	4.0	43

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91	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
92	Optical, magnetic and ferroelectric properties of Ba _{0.2} Cu _{0.8-x} La _x Fe ₂ O ₄ (x = 0.2-0.6) nanoparticles. Ceramics International, 2019, 45, 7515-7523.	4.8	51
93	Grain and grain boundary conduction mechanism in sol-gel synthesized and microwave heated Pb _{0.8-y} La _y Co _{0.2} TiO ₃ (y = 0.2-0.8) nanofibers. Materials Chemistry and Physics, 2019, 223, 241-248.	4.0	40
94	Preparation, characterization and dielectric properties of sodium alginate/titanium dioxide composite membranes. SN Applied Sciences, 2019, 1, 1.	2.9	9
95	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
96	Conducting Polymer-Derived Materials for Batteries. , 2019, , 65-78.		1
97	Superparamagnetic and photocatalytic activity of CoCe _{0.02} Dy _{0.02} Fe _{1.96} O ₄ nanoparticles synthesized by citrate-gel autocombustion technique. Biointerface Research in Applied Chemistry, 2019, 9, 4164-4167.	1.0	7
98	A review on giant piezoelectric coefficient, materials and applications. Biointerface Research in Applied Chemistry, 2019, 9, 4205-4216.	1.0	16
99	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
100	Surface Morphology Induced Inorganic Materials for Supercapacitors. , 2019, , 213-238.		1
101	Niobium Based Materials for Supercapacitors. , 2019, , 1-15.		0
102	Review on Magnetocaloric Effect and Materials. Journal of Superconductivity and Novel Magnetism, 2018, 31, 1971-1979.	1.8	130
103	Structural and ferroelectric properties of microwave heated lead cobalt titanate nanoparticles synthesized by sol-gel technique. Journal of Materials Science: Materials in Electronics, 2018, 29, 4738-4742.	2.2	21
104	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
105	Multiferroic Nature of Microwave-Processed and Sol-Gel Synthesized NanoPb _{1-x} Co _x TiO ₃ (x = 0.2-0.8) Ceramics. Crystal Research and Technology, 2018, 53, 1800139.	1.3	33
106	Structural, morphological and optical properties of Ba _{1-x} Cu _x TiO ₃ (X = 0.2, 0.4, 0.6, 0.8) nanoparticles synthesized by hydrothermal method. Materials Chemistry and Physics, 2018, 215, 310-315.	4.0	39
107	Structural and dielectric properties of superparamagnetic iron oxide nanoparticles (SPIONs) stabilized by sugar solutions. Materials Science-Poland, 2018, 36, 123-133.	1.0	36
108	Sol-gel synthesized and microwave heated Pb _{0.8-y} La _y Co _{0.2} TiO ₃ (y = 0.2-0.8) nanoparticles: Structural, morphological and dielectric properties. Ceramics International, 2018, 44, 18189-18199.	4.8	57

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109	Ceramic Nanoparticle Synthesis at Lower Temperatures for LTCC and MMIC Technologies. IEEE Transactions on Magnetics, 2018, 54, 1-8.	2.1	33
110	Effect of pH value on structural and magnetic properties of CuFe_2O_4 nanoparticles synthesized by low temperature hydrothermal technique. Materials Research Express, 2018, 5, 095025.	1.6	41
111	Structural and functional properties of sol-gel synthesized and microwave heated $\text{Pb}_{0.8}\text{Co}_{0.2-x}\text{La}_x\text{TiO}_3$ ($x=0.05-0.2$) nanoparticles. Ceramics International, 2018, 44, 19408-19420.	4.8	53
112	Structural Characterization and Dielectric Studies of Superparamagnetic Iron Oxide Nanoparticles. Journal of the Korean Ceramic Society, 2018, 55, 230-238.	2.3	33
113	Investigations on transport, impedance and electromagnetic interference shielding properties of microwave processed NiMg ferrites. Materials Research Bulletin, 2017, 89, 125-138.	5.2	39
114	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
115	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
116	Microwave Processed NiMgZn Ferrites for Electromagnetic Intereference Shielding Applications. IEEE Transactions on Magnetics, 2017, 53, 1-7.	2.1	32
117	Microwave Hydrothermal Synthesis: Structural and Dielectric Properties of nano MgFe ₂ O ₄ Ceramics. Materials Today: Proceedings, 2016, 3, 3810-3813.	1.8	4
118	Effect of Argon/Oxygen Flow Rate Ratios on DC Magnetron Sputtered Nano Crystalline Zirconium Titanate Thin Films. Jom, 2016, 68, 1647-1652.	1.9	4
119	Effect of Nonmagnetic Zn ²⁺ Cations on Initial Permeability of Microwave-treated NiMg Ferrites. International Journal of Applied Ceramic Technology, 2016, 13, 1090-1095.	2.1	27
120	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
121	Microwave processed NiMg ferrite: Studies on structural and magnetic properties. Journal of Magnetism and Magnetic Materials, 2016, 420, 109-116.	2.3	44
122	Ferroelectric behaviour of microwave sintered iron deficient PbFe ₁₂ O ₁₉ . AIP Conference Proceedings, 2016, , .	0.4	6
123	Structural and dielectric properties of CuO-doped SrTiO ₃ ceramics. AIP Conference Proceedings, 2015, , .	0.4	9
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