

Sumantra Kumar Pradhan

List of Publications by Year in descending order

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191
papers

4,662
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101543

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193
docs citations

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times ranked

5136
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved thermoelectric performance of nanostructured Bi ₂ Te ₃ fabricated by solvent-free mechanical alloying. <i>Materials Chemistry and Physics</i> , 2022, 279, 125736.	4.0	6
2	Nanoplate like heterostructured BiOBr/BiBr/FeBr ₂ nanocomposites with enhanced photocatalytic activity for wastewater treatment by removing organic dyes: Interfacial consecutive dual Z scheme electron transfer. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107240.	6.7	12
3	Microstructure and morphology related electrical characterization and dielectric relaxation studies of nanocrystalline Sb ₂ Te ₃ synthesized by mechanical alloying. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 278, 115647.	3.5	5
4	Enhanced hydrogen evolution rate using Mg-Cu Galvanic Coupling electrodes and seawater electrolyte. <i>Materials Letters</i> , 2022, 315, 131946.	2.6	3
5	Study of microstructural and electrical properties of silver substituted hydroxyapatite for drug delivery applications. <i>Materials Today Communications</i> , 2022, 31, 103360.	1.9	7
6	A novel strategy for the enhancement of the antibacterial activity of ciprofloxacin by conjugating it with a biocompatible nanocomposite. <i>AIP Conference Proceedings</i> , 2022, , .	0.4	0
7	Microstructure, optical and electrical characterizations of Bi-incorporated Sb ₂ Te ₃ thermoelectric compound synthesized by mechanical alloying: A comparative study with undoped Sb ₂ Te ₃ . <i>Materials Today: Proceedings</i> , 2022, , .	1.8	3
8	Ultrastable Asymmetric Supercapacitor Device with Chemically Derived and Mechanically Activated NiCo ₂ O ₄ . <i>Energy & Fuels</i> , 2022, 36, 7878-7889.	5.1	8
9	A comparative study on the antibacterial activities of TiO ₂ -Ag nanocomposites with the different molar percentages of Ag. <i>Materials Today: Proceedings</i> , 2022, 66, 3283-3286.	1.8	0
10	Enhanced antibacterial activity of a novel protein-arginine deiminase type-4 (PADI4) inhibitor after conjugation with a biocompatible nanocarrier. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 74, 103549.	3.0	1
11	On the grain boundary character evolution in non equiatomic high entropy alloy during hot rolling induced dynamic recrystallization. <i>Journal of Alloys and Compounds</i> , 2022, 922, 166126.	5.5	7
12	Synthesis of drug conjugated magnetic nanocomposite with enhanced hypoglycemic effects. <i>Materials Science and Engineering C</i> , 2021, 120, 111697.	7.3	11
13	Enhanced electrochemical properties of Co ₃ O ₄ with morphological hierarchy for energy storage application: A comparative study with different electrolytes. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 148, 109733.	4.0	21
14	Grain size mediated electrical and thermoelectric performances of mechanically alloyed Sb ₂ Te ₃ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2021, 858, 157732.	5.5	13
15	Comprehending the role of individual microstructural features on electrochemical response and passive film behaviour in type 304 austenitic stainless steel. <i>Corrosion Science</i> , 2021, 180, 109187.	6.6	47
16	Spectacular photocatalytic activity of mechanothesized heterostructured Bi-Fe-O nanocomposites in wastewater treatment containing colored and colorless pollutants. <i>Journal of Molecular Liquids</i> , 2021, 326, 115317.	4.9	6
17	Evolution of geometrically necessary dislocation at the $\hat{1}^3\hat{1}^3\hat{e}^2$ interface and its effect on tensile deformation behaviour of disk super alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 807, 140855.	5.6	7
18	Synthesis and characterization of a novel drug conjugated copper-silver- titanium oxide nanocomposite with enhanced antibacterial activity. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 62, 102384.	3.0	11

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19	Superior photocatalytic performance of mechanosynthesized Bi ₂ O ₃ @Bi ₂ WO ₆ nanocomposite in wastewater treatment. <i>Solid State Sciences</i> , 2021, 115, 106587.	3.2	15
20	Strain-induced microstructural evolution and its implication on high-temperature hot corrosion (HTHC) phenomena in Alloy 617. <i>Materials Characterization</i> , 2021, 178, 111272.	4.4	3
21	Effect of stacking faults on structural, morphological, and electrical properties of hydroxyapatite polycrystals. <i>Materials Letters</i> , 2021, 298, 130001.	2.6	4
22	Structure, photoluminescence, and electrical transport properties of pure and Eu ₂ O ₃ activated Zn ₂ SnO ₄ host matrix. <i>Solid State Sciences</i> , 2021, 121, 106744.	3.2	4
23	Synthesis and characterization of a novel nanocarrier for biocompatible targeting of an antibacterial therapeutic agent with enhanced activity. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 66, 102821.	3.0	3
24	MWCNT incorporated wool-ball-like CuO@NiO hybrid nanostructures for high-performance energy storage device. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161313.	5.5	10
25	Composition related structural transition between mechanosynthesized CsPbBr ₃ and CsPb ₂ Br ₅ perovskites and their optical properties. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152612.	5.5	28
26	Enhanced antifungal activity of fluconazole conjugated with Cu-Ag-ZnO nanocomposite. <i>Materials Science and Engineering C</i> , 2020, 106, 110160.	7.3	37
27	Advanced asymmetric supercapacitor with NiCo ₂ O ₄ nanoparticles and nanowires electrodes: A comparative morphological hierarchy. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153503.	5.5	28
28	Optimized enhanced photodegradation activity of sintered molybdenum oxide: A morphological hierarchy in wastewater treatment. <i>Materials Research Bulletin</i> , 2020, 124, 110760.	5.2	2
29	A potential insight into the serration behaviour of Σ 3n (n%3) boundaries in Alloy 617. <i>Materials Chemistry and Physics</i> , 2020, 248, 122919.	4.0	14
30	â€”Hall-Petchâ€” type of relationship between the extent of intergranular corrosion and grain size in a Ni-based superalloy. <i>Corrosion Science</i> , 2020, 175, 108868.	6.6	17
31	Dielectric response of ZrO ₂ @CeO ₂ nanocrystalline solid solution above room temperature. <i>Physica B: Condensed Matter</i> , 2020, 583, 412000.	2.7	1
32	Enhanced photocatalysis performance of mechano-synthesized V ₂ O ₅ @TiO ₂ nanocomposite for wastewater treatment: Correlation of structure with photocatalytic performance. <i>Materials Chemistry and Physics</i> , 2020, 248, 122947.	4.0	25
33	Enhanced photocatalytic and antibacterial activities of mechanosynthesized TiO ₂ @Ag nanocomposite in wastewater treatment. <i>Journal of Molecular Structure</i> , 2020, 1211, 128076.	3.6	32
34	Morphological effects on the photocatalytic properties of SnO ₂ nanostructures. <i>Journal of Alloys and Compounds</i> , 2019, 810, 151718.	5.5	57
35	Influence of the individual microstructural features on pitting corrosion in type 304 austenitic stainless steel. <i>Corrosion Science</i> , 2019, 158, 108091.	6.6	67
36	Ultra-Low-Temperature CO Oxidation Activity of Octahedral Site Cobalt Species in Co ₃ O ₄ Based Catalysts: Unravelling the Origin of the Unique Catalytic Property. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19557-19571.	3.1	41

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37	Effect of sintering on the structure, microstructure and electrical properties of mechanosynthesized Y ₂ O ₃ and Dy ₂ O ₃ alloyed ceria nanoparticles: A comparative study. <i>Materials Research Bulletin</i> , 2019, 120, 110582.	5.2	1
38	Enhanced photocatalytic performance of V ₂ O ₅ –TiO ₂ nanocomposites synthesized by mechanical alloying with morphological hierarchy. <i>New Journal of Chemistry</i> , 2019, 43, 2804-2816.	2.8	29
39	Microstructure characterization of biocompatible heterojunction hydrogen titanate-Ag ₂ O nanocomposites for superior visible light photocatalysis and antibacterial activity. <i>Materials Science and Engineering C</i> , 2019, 99, 374-386.	7.3	14
40	Effect of lattice distortion in optical properties of CeO ₂ nanocrystals on Mn substitution by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2019, 786, 215-224.	5.5	16
41	Microstructure correlated ferromagnetism in manganese stabilized zirconia nanoparticles. <i>Journal of Alloys and Compounds</i> , 2019, 793, 220-231.	5.5	3
42	Structural interpretation, microstructure characterization, mechanical properties, and cytocompatibility study of pure and doped carbonated nanocrystalline hydroxyapatites synthesized by mechanical alloying. , 2019, , 81-117.		1
43	Stabilization of ZrO ₂ matrix: Revisiting the “archaic” issue with a peculiar example. <i>Scripta Materialia</i> , 2019, 162, 408-411.	5.2	1
44	Dielectric relaxation, AC conductivity behavior and its relation to microstructure in mechanochemically synthesized Mn-doped CeO ₂ nanocrystals. <i>Solid State Sciences</i> , 2019, 87, 93-100.	3.2	11
45	Evaluating the efficiency of grain boundary serrations in attenuating high-temperature hot corrosion degradation in Alloy 617. <i>Corrosion Science</i> , 2019, 149, 164-177.	6.6	17
46	Microstructure, optical and electrical characterizations of nanocrystalline ZnAl ₂ O ₄ spinel synthesized by mechanical alloying: Effect of sintering on microstructure and properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 108, 411-420.	2.7	27
47	Microstructure and Electrical Characterization of Thermoelectric Nanocrystalline Bi ₂ Te ₃ Synthesized by Mechanical Alloying. <i>Materials Research</i> , 2019, 22, .	1.3	7
48	Size Tunable Cesium Antimony Chloride Perovskite Nanowires and Nanorods. <i>Chemistry of Materials</i> , 2018, 30, 2135-2142.	6.7	132
49	Microstructure, optical, dielectric and electrical characterizations of Mn doped ZnO nanocrystals synthesized by mechanical alloying. <i>Ceramics International</i> , 2018, 44, 7110-7121.	4.8	32
50	Structural and magnetic properties of La ₂ Ni ^{1+δ} Co MnO ₆ compounds. <i>Materials Research Bulletin</i> , 2018, 102, 248-256.	5.2	16
51	A critical evaluation on efficacy of recrystallization vs. strain induced boundary migration in achieving grain boundary engineered microstructure in a Ni-base superalloy. <i>Acta Materialia</i> , 2018, 146, 187-201.	7.9	120
52	One step synthesized In ₂ O ₃ alloyed CeO ₂ nanoparticles: Microstructure, phase stability investigation and charge transport properties. <i>Journal of Alloys and Compounds</i> , 2018, 749, 724-733.	5.5	3
53	Microstructure, optical and electrical characterizations of Mn doped ZnS nanocrystals synthesized by mechanical alloying. <i>Materials Research Bulletin</i> , 2018, 97, 169-175.	5.2	28
54	Microstructure evolution during low-strain thermo-mechanical processing and its repercussion on intergranular corrosion in alloy 600H. <i>Materials Characterization</i> , 2018, 145, 582-593.	4.4	26

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55	Mechanosynthesis of Nanocrystalline Fully Stabilized bcc $\hat{\Gamma}^3$ -phase of Bi ₂ O ₃ without Any Additive: Manifestation of Ferroelasticity in Microstructure, Optical, and Transport Properties. <i>Crystal Growth and Design</i> , 2018, 18, 6564-6572.	3.0	18
56	Exploring (bio)catalytic activities of structurally characterised Cu(II) and Mn(III) complexes: histidine recognition and photocatalytic application of Cu(II) complex and derived CuO nano-cubes. <i>Dalton Transactions</i> , 2018, 47, 14008-14016.	3.3	6
57	Individual and synergistic influences of microstructural features on intergranular corrosion behavior in extra-low carbon type 304L austenitic stainless steel. <i>Corrosion Science</i> , 2018, 139, 319-332.	6.6	45
58	Microstructure characterization of intermetallic (Ni-Ti) ₃ C nanocarbide compound synthesized by mechanical alloying of elemental powders. <i>Ceramics International</i> , 2018, 44, 14857-14864.	4.8	1
59	Hydrothermal synthesis of polyaniline intercalated vanadium oxide xerogel hybrid nanocomposites: effective control of morphology and structural characterization. <i>New Journal of Chemistry</i> , 2017, 41, 3634-3645.	2.8	50
60	Microstructure and electrical transport phenomenon of yttria alloyed nanocrystalline ceria solid solution synthesized by mechanical alloying. <i>Materials Research Bulletin</i> , 2017, 93, 333-341.	5.2	6
61	Alteration of magnetic behavior and microstructural distortion of EuMnO ₃ by partial substitution of Eu with monovalent Na. <i>Journal of Alloys and Compounds</i> , 2017, 715, 214-223.	5.5	2
62	Microstructure characterization of hydrothermally synthesized PANI/V ₂ O ₅ ·nH ₂ O heterojunction photocatalyst for visible light induced photodegradation of organic pollutants and non-absorbing colorless molecules. <i>Journal of Hazardous Materials</i> , 2017, 339, 161-173.	12.4	88
63	Influence of processing parameters on dynamic recrystallization and the associated annealing twin boundary evolution in a nickel base superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 700, 49-58.	5.6	103
64	Electrical transport and dielectric modulus formalism of CuO doped ZrO ₂ partially stabilized solid solution. <i>Materials Research Bulletin</i> , 2017, 88, 272-280.	5.2	10
65	Targeting low-cost type-II heterostructures: Synthesis, structure and photoreactivity. <i>Journal of Alloys and Compounds</i> , 2017, 698, 944-956.	5.5	20
66	Microstructure correlated electrical conductivity of Manganese alloyed nanocrystalline cubic zirconia synthesized by mechanical alloying. <i>Advanced Powder Technology</i> , 2017, 28, 618-628.	4.1	8
67	Through-thickness microstructural evolution during grain boundary engineering type thermomechanical processing and its implication on sensitization behavior in austenitic stainless steel. <i>Materials Characterization</i> , 2017, 134, 134-142.	4.4	22
68	Effect of doping (Mg,Mn,Zn) on the microstructure and mechanical properties of spark plasma sintered hydroxyapatites synthesized by mechanical alloying. <i>Ceramics International</i> , 2017, 43, 2389-2397.	4.8	51
69	Structural Characterization and Electrical Conductivity of Mechanically Alloyed 10mol% In ₂ O ₃ Doped CeO ₂ Nanoparticles. <i>Current Physical Chemistry</i> , 2017, 7, .	0.2	1
70	Effect of Material Behavior on Dynamic Characteristics Determination of Marine Propeller Blade Using Finite Element Analysis. <i>Procedia Engineering</i> , 2016, 144, 767-774.	1.2	3
71	Sintering behavior and growth mechanism of $\hat{\Gamma}^2$ -TCP in nanocrystalline hydroxyapatite synthesized by mechanical alloying. <i>Ceramics International</i> , 2016, 42, 13176-13182.	4.8	14
72	Microstructure and optical characterizations of mechano-synthesized nanocrystalline semiconducting ZrTiO ₄ compound. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 95, 56-64.	4.0	7

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73	Structural, Optical Characterization and Growth Mechanism of Kadamba Flower like ZnO Nanocrystals Synthesized by a Simple Chemical Route.. ChemistrySelect, 2016, 1, 3705-3712.	1.5	7
74	Room temperature mechanosynthesis and microstructure characterization of nanocrystalline Si _{0.9} Al _{0.1} C. Materials Chemistry and Physics, 2016, 169, 186-191.	4.0	3
75	Structure, optical and magnetic characterizations of Mn doped ZnS dilute magnetic semiconductor synthesized by mechanical alloying. Advanced Powder Technology, 2016, 27, 1790-1799.	4.1	7
76	Microstructure characterization and electrical transport of nanocrystalline Zn _{0.90} Mn _{0.10} O semiconductors synthesized by mechanical alloying. Materials Research Bulletin, 2016, 77, 138-146.	5.2	5
77	Facile synthesis of SnO ₂ –PbS nanocomposites with controlled structure for applications in photocatalysis. Nanoscale, 2016, 8, 2727-2739.	5.6	60
78	Effect of sodium doping on the microstructure, lattice distortion and magnetic properties of GdMnO ₃ tiny single crystals. RSC Advances, 2016, 6, 20609-20620.	3.6	37
79	Investigation of dielectric and electrical behaviour of nanocrystalline Zn _{1-x} Mn _x O (x=0 to 0.10) semiconductors synthesized by mechanical alloying. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 81, 122-130.	2.7	5
80	Magnesium substitution in carbonated hydroxyapatite: Structural and microstructural characterization by Rietveld's refinement. Materials Chemistry and Physics, 2016, 170, 319-329.	4.0	51
81	Structure and microstructure dependent ionic conductivity in 10 mol% Dy ₂ O ₃ doped CeO ₂ nanoparticles synthesized by mechanical alloying. Materials Research Bulletin, 2016, 73, 446-451.	5.2	9
82	Photoswitching and Thermo-responsive Properties of Conjugated Multi-chromophore Nanostructured Materials. Small, 2015, 11, 6317-6324.	10.0	13
83	Effect of Manganese (II) Oxide on microstructure and ionic transport properties of nanostructured cubic zirconia. Electrochimica Acta, 2015, 170, 360-368.	5.2	16
84	Mechanical preparation of nanocrystalline biocompatible single-phase Mn-doped A-type carbonated hydroxyapatite (A-cHAp): effect of Mn doping on microstructure. Dalton Transactions, 2015, 44, 20087-20097.	3.3	24
85	One step ultrafast mechanosynthesis of nanocrystalline cubic Ti _{0.9} Al _{0.1} B and its microstructure evolution. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 68, 93-101.	2.7	2
86	Structural interpretation of chemically synthesized ZnO nanorod and its application in lithium ion battery. Applied Surface Science, 2015, 329, 206-211.	6.1	30
87	Structural interpretation, growth mechanism and optical properties of ZnO nanorods synthesized by a simple wet chemical route. RSC Advances, 2015, 5, 23101-23113.	3.6	52
88	Influence of Size and Shape on the Photocatalytic Properties of SnO ₂ Nanocrystals. ChemPhysChem, 2015, 16, 1017-1025.	2.1	64
89	Structural and microstructural interpretations of Zn-doped biocompatible bone-like carbonated hydroxyapatite synthesized by mechanical alloying. Journal of Applied Crystallography, 2015, 48, 138-148.	4.5	14
90	Microstructure characterization and electrical transport properties of nanocrystalline Fe and Fe-doped cubic zirconia cermets synthesized by mechanical alloying. Materials Research Bulletin, 2015, 68, 66-74.	5.2	11

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91	Effects of monovalent cation doping on the structure, microstructure, lattice distortion and magnetic behavior of single crystalline NdMnO ₃ compounds. Dalton Transactions, 2015, 44, 17229-17240.	3.3	31
92	Electric modulus formalism and electrical transport property of ball mill synthesized nanocrystalline Mn doped ZrO ₂ solid solution. Physica B: Condensed Matter, 2015, 479, 67-73.	2.7	8
93	Electrical transport properties of nanocrystalline nonstoichiometric nickel ferrite at and above room temperature. Physica B: Condensed Matter, 2015, 457, 225-231.	2.7	7
94	Microstructure characterization and electrical transport of nanocrystalline CdZnS quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 66, 59-66.	2.7	9
95	Anomalous electrical transport mechanism in ternary carbide Ti _{0.9} Al _{0.1} C above room temperature. Physica B: Condensed Matter, 2014, 447, 1-6.	2.7	4
96	Structural and magnetic characterizations of undoped and K-doped NdMnO ₃ single crystals synthesized by sol-gel route: A comparative study. Powder Technology, 2014, 254, 538-547.	4.2	16
97	Structural interpretation of SnO ₂ nanocrystals of different morphologies synthesized by microwave irradiation and hydrothermal methods. CrystEngComm, 2014, 16, 1079-1090.	2.6	57
98	Microstructure and photoluminescence properties of ternary Cd _{0.2} Zn _{0.8} S quantum dots synthesized by mechanical alloying. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	9
99	Activation behavior and dielectric relaxation of nanocrystalline zinc ferrite. Materials Research Bulletin, 2014, 60, 446-452.	5.2	7
100	Biocompatible nanocrystalline natural bonelike carbonated hydroxyapatite synthesized by mechanical alloying in a record minimum time. Materials Science and Engineering C, 2014, 42, 647-656.	7.3	44
101	Ultrafast one step mechanosynthesis of nanocrystalline cubic Ti _{0.9} Si _{0.1} B and its microstructure characterization. Powder Technology, 2014, 264, 265-272.	4.2	0
102	Microstructure and optical characterizations of mechanosynthesized nanocrystalline (Ti _{0.9} Si _{0.1})N. Powder Technology, 2013, 241, 28-35.	4.2	0
103	Microstructural evolution of nanostructured Ti _{0.7} Ni _{0.3} N prepared by reactive ball-milling. Materials Research Bulletin, 2013, 48, 3129-3135.	5.2	5
104	Microstructure and positron annihilation studies of mechanosynthesized CdFe ₂ O ₄ . Journal of Asian Ceramic Societies, 2013, 1, 356-361.	2.3	5
105	Microstructure characterization and electrical transport of nanocrystalline ZrO ₂ -CeO ₂ solid solution. Materials Research Bulletin, 2013, 48, 3892-3900.	5.2	5
106	XRD and HRTEM characterization of mechanosynthesized Ti _{0.9} W _{0.1} C cermet. Journal of Alloys and Compounds, 2013, 581, 710-716.	5.5	8
107	One step quickest mechanosynthesis of nanocrystalline Ti _{0.9} Si _{0.1} C and its microstructure characterization. Journal of Alloys and Compounds, 2013, 557, 47-52.	5.5	4
108	Structural and microstructural characterizations of nanocrystalline hydroxyapatite synthesized by mechanical alloying. Materials Science and Engineering C, 2013, 33, 2891-2898.	7.3	24

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109	Microstructural, magnetic and optical characterizations of nanocrystalline Zn _{1-x} Mn _x O dilute magnetic semiconductors synthesized by mechanical alloying. Journal of Alloys and Compounds, 2012, 519, 112-122.	5.5	16
110	Microstructural changes and effect of variation of lattice strain on positron annihilation lifetime parameters of zinc ferrite nanocomposites prepared by high energy ball-milling. Materials Research, 2012, 15, 1022-1028.	1.3	16
111	Microstructural, optical and quantum confinement effect study of mechanically synthesized ZnTe quantum dots. Acta Materialia, 2012, 60, 131-138.	7.9	22
112	One-step mechanosynthesis of nano structured Ti(C _x N _{1-x}) cermets at room temperature and their microstructure characterization. Materials Chemistry and Physics, 2012, 134, 1088-1096.	4.0	5
113	Quickest ever single-step mechanosynthesis of Cd _{0.5} Zn _{0.5} S quantum dots: Nanostructure and optical characterizations. Materials Research Bulletin, 2012, 47, 1062-1072.	5.2	37
114	Mechanosynthesis of nanocrystalline Ti _{0.9} Co _{0.1} N at room temperature and its microstructural aspects. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 534, 400-407.	5.6	10
115	Microstructural evolution of nanostructured Ti _{0.9} Al _{0.1} N prepared by reactive ball-milling. Journal of Alloys and Compounds, 2011, 509, 620-626.	5.5	8
116	Mechanochemical solid state synthesis of (Cd _{0.8} Zn _{0.2})S quantum dots: Microstructure and optical characterizations. Journal of Alloys and Compounds, 2011, 509, 4176-4184.	5.5	29
117	Quickest single-step one pot mechanosynthesis and characterization of ZnTe quantum dots. Journal of Alloys and Compounds, 2011, 509, 5567-5570.	5.5	8
118	Quickest Single-Step Mechanosynthesis of CdS Quantum Dots and Their Microstructure Characterization. Journal of Nanoscience and Nanotechnology, 2011, 11, 4771-4780.	0.9	12
119	Preparation of nanodimensional CdS by chemical dipping technique and their characterization. Materials Research, 2011, 14, 17-20.	1.3	27
120	Anomalous electrical transport properties of nonstoichiometric nickel ferrite below room temperature. Materials Research Bulletin, 2011, 46, 1055-1064.	5.2	11
121	One-step fastest method of nanocrystalline CuAlS ₂ chalcopyrite synthesis, and its nanostructure characterization. Journal of Nanoparticle Research, 2011, 13, 2343-2350.	1.9	9
122	Dielectric relaxation and magnetic field dependent alternating current conductivity of nanocrystalline cadmium-zinc ferrite below room temperature. Physica B: Condensed Matter, 2011, 406, 3261-3266.	2.7	14
123	Microstructure Characterization of Nanocrystalline Magnesium Ferrite Annealed at Elevated Temperatures by Rietveld Method. ISRN Ceramics, 2011, 2011, 1-8.	0.2	7
124	Microstructure, Mossbauer, and Optical Characterizations of Nanocrystalline $\text{Fe}_{1-x}\text{Zn}_x\text{O}$ Synthesized by Chemical Route. ISRN Ceramics, 2011, 2011, 1-8.	0.2	6
125	Microstructure characterization of nanocrystalline TiC synthesized by mechanical alloying. Materials Chemistry and Physics, 2010, 120, 537-545.	4.0	57
126	Electrical transport behavior of nonstoichiometric magnesium-zinc ferrite. Materials Research Bulletin, 2010, 45, 954-960.	5.2	17

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127	Alternate current conductivity and dielectric properties of nonstoichiometric nanocrystalline Mg ²⁺ -Zn ferrite below room temperature. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 1397-1405.	2.7	8
128	In-situ high temperature annealing of nanostructured ZrTiO ₄ prepared by mechanical alloying. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 1772-1776.	2.7	2
129	Synthesis of nanocrystalline Cd ²⁺ -Zn ferrite by ball milling and its stability at elevated temperatures. <i>Journal of Alloys and Compounds</i> , 2010, 489, 91-98.	5.5	15
130	Mechanosynthesis of nanocrystalline titanium nitride and its microstructure characterization. <i>Journal of Alloys and Compounds</i> , 2010, 493, 192-196.	5.5	14
131	Preparation of ternary Ti _{0.9} Ni _{0.1} C cermets by mechanical alloying: Microstructure characterization by Rietveld method and electron microscopy. <i>Journal of Alloys and Compounds</i> , 2010, 493, 666-671.	5.5	18
132	Microstructure characterization of ball-mill prepared ternary Ti _{0.9} Al _{0.1} C by X-ray diffraction and electron microscopy. <i>Journal of Alloys and Compounds</i> , 2010, 501, 198-203.	5.5	15
133	Microstructure characterization of nanocrystalline Fe ₃ C synthesized by high-energy ball milling. <i>Journal of Alloys and Compounds</i> , 2009, 477, 127-132.	5.5	44
134	Microstructure characterization of nanocrystalline Ni ₃ C synthesized by high-energy ball milling. <i>Journal of Alloys and Compounds</i> , 2009, 479, 193-200.	5.5	58
135	Microstructural characterization of nanocrystalline SiC synthesized by high-energy ball-milling. <i>Journal of Alloys and Compounds</i> , 2009, 486, 480-485.	5.5	41
136	Electrical transport properties of nanocrystalline zinc ferrite. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2686-2693.	2.7	8
137	Phase Stability of Nanocrystalline Mg ²⁺ -Zn Ferrite at Elevated Temperatures. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 8667-8672.	1.5	20
138	PbZr _{1-x} Ti _x O ₃ by soft synthesis: Structural aspects. <i>Physical Review B</i> , 2007, 76, .	3.2	7
139	Atomic-Scale Structure of Nanosized Titania and Titanate: Particles, Wires, and Tubes. <i>Chemistry of Materials</i> , 2007, 19, 6180-6186.	6.7	60
140	Microstructure characterization and polymorphic transformation kinetic study of ball-milled nanocrystalline α-TiO ₂ -20mol% m-ZrO ₂ mixture by X-ray diffraction and electron microscopy. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 36, 17-27.	2.7	10
141	Microstructure characterization of mechanothesized nanocrystalline NiFe ₂ O ₄ by Rietveld's analysis. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 39, 175-184.	2.7	55
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