Yasuhiro Hayakawa

List of Publications by Year
in descending order

184	3,660	156536 32	214428 50
papers	citations	h-index	g-index

184	184	184	5398
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of Neodymium substitution on the structural, morphological and optical properties of yttrium oxide nanocrystals. Materials Research Innovations, 2023, 27, 83-92.	1.0	0
2	Hierarchically ordered macroporous TiO2 architecture via self-assembled strategy for environmental remediation. Chemosphere, 2022, 288, 132236.	4.2	10
3	The effect of Sr and Sb co-doping on structural, morphological and thermoelectric properties of BaSnO3 perovskite material. Journal of Alloys and Compounds, 2022, 894, 162335.	2.8	3
4	Laser scanning confocal microscopy observations of InAsSb thin and thick epilayers. , 2022, , .		0
5	RF Sputtered Nb-Doped MoS₂ Thin Film for Effective Detection of NO₂ Gas Molecules: Theoretical and Experimental Studies. ACS Omega, 2022, 7, 10492-10501.	1.6	13
6	Interface driven energy-filtering and phonon scattering of polyaniline incorporated ultrathin layered molybdenum disulphide nanosheets for promising thermoelectric performance. Journal of Colloid and Interface Science, 2021, 584, 295-309.	5.0	20
7	Surface Modification of ZnO Nanowires with CuO: A Tool to Realize Highly-Sensitive H2S Sensor. Physics of the Solid State, 2021, 63, 460-467.	0.2	3
8	Facile synthesis of Yb2O3â€“graphene nanocomposites for enhanced energy and environmental applications. Polymer Bulletin, 2020, 77, 3891-3906.	1.7	13
9	Effect of ethylenediamine on morphology of 2D Co-Mo-S@NG hybrids and their enhanced electrocatalytic activity for DSSCs application. Materials Science in Semiconductor Processing, 2020, 105, 104725.	1.9	7
10	Hierarchical NiO@NiS@graphene nanocomposite as a sustainable counter electrode for Pt free dye-sensitized solar cell. Applied Surface Science, 2020, 501, 144010.	3.1	44
11	Bio-modified TiO2 nanoparticles with Withania somnifera, Eclipta prostrata and Glycyrrhiza glabra for anticancer and antibacterial applications. Materials Science and Engineering C, 2020, 108, 110457.	3.8	40
12	Improved optoelectronic properties of Gd doped cadmium oxide thin films through optimized film thickness for alternative TCO applications. Journal of Alloys and Compounds, 2020, 820, 153188.	2.8	24
13	Improvement of Photocatalytic Activity by Zn Doping in Cu2O. Physics of the Solid State, 2020, 62, 1796-1802.	0.2	9
14	Facile synthesis of morphology-controlled La:BaSnO₃ for the enhancement of thermoelectric power factor. CrystEngComm, 2020, 22, 5363-5374.	1.3	10
15	Effect of densification technique and carrier concentration on the thermoelectric properties of n-type Cu1.45Ni1.45Te2 ternary compound. CrystEngComm, 2020, 22, 8100-8109.	1.3	2
16	Effect of Zn Doping in CuO Octahedral Crystals towards Structural, Optical, and Gas Sensing Properties. Crystals, 2020, 10, 188.	1.0	27
17	Improved photocatalytic performance of nanostructured SnO2 via addition of alkaline earth metals (Ba2+, Ca2+ and Mg2+) under visible light irradiation. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	31
18	Growth of large-scale MoS₂ nanosheets on double layered ZnCo₂O₄ for real-time in situ H₂S monitoring in live cells. Journal of Materials Chemistry B, 2020, 8, 7453-7465.	2.9	20

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19	Topological synthesis of Mg-based silicate nanosheet bundles from CaSi₂ crystal powders. Japanese Journal of Applied Physics, 2020, 59, SFFD02.	0.8	2
20	Preparation of Cr3+-Substituted NiFe2O4 Nanoparticles and Its Microwave Absorption Properties. Journal of Superconductivity and Novel Magnetism, 2019, 32, 1423-1429.	0.8	5
21	An Approach to Optimize the Thermoelectric Properties of IIIâ€“V Ternary InGaSb Crystals by Defect Engineering via Point Defects and Microscale Compositional Segregations. Inorganic Chemistry, 2019, 58, 11579-11588.	1.9	9
22	ZnCo₂O₄ Nanoflowers Grown on Co₃O₄ Nanowire-Decorated Cu Foams for in Situ Profiling of H₂O₂ in Live Cells and Biological Media. ACS Applied Nano Materials, 2019, 2, 5049-5060.	2.4	34
23	Fabrication of ultrathin poly-crystalline SiGe-on-insulator layer for thermoelectric applications. Journal of Physics Communications, 2019, 3, 075007.	0.5	4
24	Numerical Investigation of the Effect of Heating Rate on InGaSb Crystal Growth under Zero-Gravity. Microgravity Science and Technology, 2019, 31, 377-380.	0.7	5
25	Environmentally Sustainable Synthesis of a CoFe₂O₄â€“TiO₂/rGO Ternary Photocatalyst: A Highly Efficient and Stable Photocatalyst for High Production of Hydrogen (Solar Fuel). ACS Omega, 2019, 4, 880-891.	1.6	104
26	Investigation of Gd-doped mesoporous TiO2 spheres for environmental remediation and energy applications. Applied Surface Science, 2019, 489, 883-892.	3.1	31
27	Zn and Sr co-doped TiO2 mesoporous nanospheres as photoanodes in dye sensitized solar cell. Materials Chemistry and Physics, 2019, 234, 259-267.	2.0	13
28	Synthesis and characterization of branchlet-like SrCO3 nanorods using triethylamine as a capping agent by wet chemical method. Applied Surface Science, 2019, 487, 1271-1278.	3.1	17
29	Metal sulfide nanosheetâ€“nitrogen-doped graphene hybrids as low-cost counter electrodes for dye-sensitized solar cells. Applied Surface Science, 2019, 480, 177-185.	3.1	18
30	Homogeneous InGaSb crystal grown under microgravity using Chinese recovery satellite SJ-10. Npj Microgravity, 2019, 5, 8.	1.9	12
31	Understanding the Magnetic Memory Effect in Fe-Doped NiO Nanoparticles for the Development of Spintronic Devices. ACS Applied Nano Materials, 2019, 2, 278-290.	2.4	32
32	Low Thermal Conductivity of Bulk Amorphous Si1â^'xGe x Containing Nano-Sized Crystalline Particles Synthesized by Ball-Milling Process. Journal of Electronic Materials, 2018, 47, 3260-3266.	1.0	8
33	Enhanced photon collection of high surface area carbonate-doped mesoporous TiO2 nanospheres in dye sensitized solar cells. Materials Research Bulletin, 2018, 101, 353-362.	2.7	32
34	Fabrication and Luminescence Characterization of a Silica Nanomatrix Embedded with NaYF4:Yb:Er:Tm@NaGdF4/Fe3O4 Nanoparticles. Journal of Electronic Materials, 2018, 47, 4555-4560.	1.0	7
35	Chemical synthesis of highly size-confined triethylamine-capped $$hbox {TiO}_{2}$$ TiO 2 nanoparticles and its dye-sensitized solar cell performance. Bulletin of Materials Science, 2018, 41, 1.	0.8	1
36	Molybdenum Oxide/Graphene Nanocomposite Electrodes with Enhanced Capacitive Performance for Supercapacitor Applications. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 50-62.	1.9	20

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37	Tuning the selectivity of NH3 gas sensing response using Cu-doped ZnO nanostructures. Sensors and Actuators A: Physical, 2018, 269, 331-341.	2.0	93
38	Studies on optoelectronic properties of magnetron Sputtered cadmium stannate (Cd2SnO4) thin films as alternative TCO materials for solar cell applications. Ceramics International, 2018, 44, 2529-2538.	2.3	40
39	Photothermally Active Upconversion Coreâ€“Shell NaGdF₄:Yb:Tm@Cu Nanostructures: Synthesis and Theranostic Properties. Particle and Particle Systems Characterization, 2018, 35, 1800227.	1.2	3
40	Thermoelectric characteristics of nanocrystalline ZnO grown on fabrics for wearable power generator. Journal of Physics: Conference Series, 2018, 1052, 012017.	0.3	6
41	Ultrathin layered MoS₂ nanosheets with rich active sites for enhanced visible light photocatalytic activity. RSC Advances, 2018, 8, 26664-26675.	1.7	54
42	Structural, optical and photocatalytic properties of spray deposited Cu2ZnSnS4 thin films with various S/(Cu+Zn+Sn) ratio. Materials Science in Semiconductor Processing, 2018, 87, 54-64.	1.9	24
43	Laser-induced incandescence of GaSb/InGaSb surface layers. Optics and Laser Technology, 2018, 108, 150-154.	2.2	4
44	Reduced thermal conductivity of a Ge_{1â^'x}Sn_x layer formed on a self-assembled Sn nanodot template. Semiconductor Science and Technology, 2018, 33, 124004.	1.0	6
45	Formation of Si-based Nanosheet Bundles and Morphological Modication of CaSi₂Crystals by Thermal Treatment Using Chloride Compounds. E-Journal of Surface Science and Nanotechnology, 2018, 16, 218-224.	0.1	11
46	Synthesis of ZnO/SrO nanocomposites for enhanced photocatalytic activity under visible light irradiation. Applied Surface Science, 2017, 418, 147-155.	3.1	36
47	Niâ€“CeO₂ spherical nanostructures for magnetic and electrochemical supercapacitor applications. Physical Chemistry Chemical Physics, 2017, 19, 4396-4404.	1.3	82
48	Ruthenium based metallopolymer grafted reduced graphene oxide as a new hybrid solar light harvester in polymer solar cells. Scientific Reports, 2017, 7, 43133.	1.6	68
49	In situ Growth of Phaseâ€Controlled Nickel Sulfide Nanostructures on Reduced Graphene Oxide Nanosheets : A Improved Costâ€effective Catalyst for 4â€Nitrophenol Reduction. ChemistrySelect, 2017, 2, 2187-2196.	0.7	5
50	Functional properties and enhanced visible light photocatalytic performance of V3O4 nanostructures decorated ZnO nanorods. Applied Surface Science, 2017, 418, 171-178.	3.1	19
51	Highly efficient visible-light photocatalytic activity of MoS₂â€“TiO₂ mixtures hybrid photocatalyst and functional properties. RSC Advances, 2017, 7, 24754-24763.	1.7	96
52	Novel Sugar Apple-Shaped SnO2 Microspheres With Light Scattering Effect in Dye-Sensitized Solar Cell Application. IEEE Journal of Photovoltaics, 2017, 7, 1050-1057.	1.5	9
53	ZnS quantum dots impregnated-mesoporous TiO₂ nanospheres for enhanced visible light induced photocatalytic application. RSC Advances, 2017, 7, 26446-26457.	1.7	26
54	Synthesis of cluster like TiO2 mesoporous spheres and nanorods and their applications in dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2017, 28, 14935-14943.	1.1	0

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55	Fabrication of Cu₂MoS₄ hollow nanotubes with rGO sheets for enhanced visible light photocatalytic performance. CrystEngComm, 2017, 19, 2475-2486.	1.3	39
56	Fabrication of hierarchical ZnO nanostructures on cotton fabric for wearable device applications. Applied Surface Science, 2017, 418, 352-361.	3.1	52
57	Incorporation of ZnO and their composite nanostructured material into a cotton fabric platform for wearable device applications. Carbohydrate Polymers, 2017, 157, 1801-1808.	5.1	56
58	Controlled structural and compositional characteristic of visible light active ZnO/CuO photocatalyst for the degradation of organic pollutant. Applied Surface Science, 2017, 418, 103-112.	3.1	137
59	Synthesis of super-paramagnetic iron oxide nanoparticles assisted by brown seaweedTurbinaria decurrensfor removal of reactive navy blue dye. Materials Research Express, 2017, 4, 105038.	0.8	9
60	Controlled synthesis of Ni-doped ZnO hexagonal microdiscs and their gas sensing properties at low temperature. Chemical Physics Letters, 2017, 689, 92-99.	1.2	56
61	Synergetic effect of CuS@ZnS nanostructures on photocatalytic degradation of organic pollutant under visible light irradiation. RSC Advances, 2017, 7, 34366-34375.	1.7	40
62	Improved performance of InAs0.07Sb0.93 photoconductors operating at room temperature. Optik, 2017, 142, 68-72.	1.4	2
63	A visible-light active catecholâ€“metal oxide carbonaceous polymeric material for enhanced photocatalytic activity. Journal of Materials Chemistry A, 2017, 5, 384-396.	5.2	68
64	Defect assisted room temperature ferromagnetism on rf sputtered Mn doped CeO2 thin films. Ceramics International, 2017, 43, 399-406.	2.3	31
65	Size controlled synthesis of silver sulfide nanostructures by multi-solvent thermal decomposition method. Journal of Crystal Growth, 2017, 468, 119-124.	0.7	9
66	Phonon-Drag Contribution to Seebeck Coefficient in P-Type Si, Ge and Si_{1-x}Ge_x. IEICE Transactions on Electronics, 2017, E100.C, 482-485.	0.3	1
67	Highly efficient dye-sensitized solar cell performance from template derived high surface area mesoporous TiO₂ nanospheres. RSC Advances, 2016, 6, 68092-68099.	1.7	20
68	Investigation of directionally solidified InGaSb ternary alloys from Ga and Sb faces of GaSb(111) under prolonged microgravity at the International Space Station. Npj Microgravity, 2016, 2, 16026.	1.9	11
69	Assessment of strontium oxide functionalized graphene nanoflakes for enhanced photocatalytic activity: A density functional theory approach. AIP Conference Proceedings, 2016, , .	0.3	0
70	Experimental and theoretical spectroscopic studies of branchlet-like SrCO3 superarchitecture. AIP Conference Proceedings, 2016, , .	0.3	1
71	Multi-modal imaging of HeLa cells using a luminescent ZnS:Mn/NaGdF₄:Yb:Er nanocomposite with enhanced upconversion red emission. RSC Advances, 2016, 6, 33569-33579.	1.7	10
72	A Review on InGaSb Growth under Microgravity and Terrestrial Conditions Towards Future Crystal Growth Project Using Chinese Recovery Satellite SJ-10. Microgravity Science and Technology, 2016, 28, 143-154.	0.7	6

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73	Enhanced visible light induced photocatalytic activity on the degradation of organic pollutants by SnO nanoparticle decorated hierarchical ZnO nanostructures. RSC Advances, 2016, 6, 89721-89731.	1.7	42
74	Controlled exfoliation of monodispersed MoS₂ layered nanostructures by a ligand-assisted hydrothermal approach for the realization of ultrafast degradation of an organic pollutant. RSC Advances, 2016, 6, 109495-109505.	1.7	28
75	Numerical simulation model by volume averaging for the dissolution process of GaSb into InSb in a sandwich system. Numerical Heat Transfer, Part B: Fundamentals, 2016, 70, 441-458.	0.6	11
76	ZnS/CuS nanocomposites: an effective strategy to transform UV active ZnS to UV and Vis light active ZnS. Journal of Materials Science: Materials in Electronics, 2016, 27, 9022-9033.	1.1	8
77	Morphological transformation of ZnO nanoparticle to nanorods via solidâ€“solid interaction at high temperature annealing and functional properties. Scripta Materialia, 2016, 113, 163-166.	2.6	21
78	Structural characterization and magnetic properties of Co co-doped Ni/ZnO nanoparticles. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	55
79	Solâ€“gel synthesis and photoluminescence analysis of Sm 3+ :NaGd(WO 4) 2 phosphors. Journal of Luminescence, 2016, 170, 743-748.	1.5	48
80	Growth of InxGa1â^'xSb alloy semiconductor at the International Space Station (ISS) and comparison with terrestrial experiments. Npj Microgravity, 2015, 1, 15011.	1.9	24
81	Viscosity Measurements of Molten In_xGa_{1-x}Sb toward the Experiment of Semiconductor Crystal Growth on the ISS. Netsu Bussei, 2015, 27, 152-163.	0.1	0
82	Effect of magnesium addition on structural and magnetic properties of NiO, Co3O4 nanoparticles. AIP Conference Proceedings, 2015, , .	0.3	0
83	Structural and magnetic properties of cobalt-doped iron oxide nanoparticles prepared by solution combustion method for biomedical applications. International Journal of Nanomedicine, 2015, 10 Suppl 1, 189.	3.3	27
84	A Numerical Study on the Growth Process of InGaSb Crystals Under Microgravity with Interfacial Kinetics. Microgravity Science and Technology, 2015, 27, 313-320.	0.7	10
85	Effect of solvents on the bulk growth of 4-aminobenzophenone single crystals: A potential material for blue and green lasers. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 145, 329-332.	2.0	7
86	Role of SDS surfactant concentrations on the structural, morphological, dielectric and magnetic properties of CoFe₂O₄ nanoparticles. RSC Advances, 2015, 5, 27060-27068.	1.7	57
87	Influence of substrate temperature on ethanol sensing properties of CdO thin films prepared by facile spray pyrolysis method. Journal of Materials Science: Materials in Electronics, 2015, 26, 955-961.	1.1	6
88	Effect of rf power on the properties of magnetron sputtered CeO2 thin films. Journal of Materials Science: Materials in Electronics, 2015, 26, 2800-2809.	1.1	33
89	Effect of organic-ligands on the toxicity profiles of CdS nanoparticles and functional properties. Colloids and Surfaces B: Biointerfaces, 2015, 126, 407-413.	2.5	17
90	Effect of precursor concentration on the properties and tuning of conductivity between p-type and n-type Cu1â^'XCdXS2 thin films deposited by a single step solution process as a novel material for photovoltaic applications. RSC Advances, 2015, 5, 23015-23021.	1.7	13

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91	Solvothermal growth of diethylamine capped TiO2 nanoparticles and functional properties. Journal of Materials Science: Materials in Electronics, 2015, 26, 2380-2383.	1.1	1
92	Structural, optical and antibacterial activity studies of neodymium doped ZnO nanoparticles. Journal of Materials Science: Materials in Electronics, 2015, 26, 7564-7576.	1.1	49
93	Chemical synthesis and functional properties of multi-ligands passivated lead sulfide nanoparticles. Materials Letters, 2015, 158, 75-79.	1.3	3
94	Fast Response and High Sensitivity of ZnO Nanowiresâ€"Cobalt Phthalocyanine Heterojunction Based H2S Sensor. ACS Applied Materials & Interfaces, 2015, 7, 17713-17724.	4.0	57
95	Segregation of Ge in B and Ge codoped Czochralski-Si crystal growth. Journal of Alloys and Compounds, 2015, 639, 588-592.	2.8	3
96	Controlled synthesis of organic ligand passivated ZnO nanostructures and their photocatalytic activity under visible light irradiation. Dalton Transactions, 2015, 44, 10490-10498.	1.6	68
97	Glucose sensing behavior of cobalt doped ZnO nanoparticles synthesized by co-precipitation method. Journal of Materials Science: Materials in Electronics, 2015, 26, 4988-4996.	1.1	10
98	Fabrication of bistable switching device using CdS nanorods embedded in PMMA (polymethylmethacrylate) nanocomposite. Journal of Materials Science: Materials in Electronics, 2015, 26, 9010-9015.	1.1	6
99	Microwave synthesis and effect of CTAB on ferromagnetic properties of NiO, Co3O4 and NiCo2O4 nanostructures. Applied Physics A: Materials Science and Processing, 2015, 119, 219-232.	1.1	53
100	Determination of gas sensing properties of thermally evaporated WO3 nanostructures. Journal of Materials Science: Materials in Electronics, 2015, 26, 1389-1394.	1.1	14
101	Solâ€"gel synthesis and photoluminescence studies on colour tuneable Dy3+/Tm3+ co-doped NaGd(WO4)2 phosphor for white light emission. Journal of Luminescence, 2015, 157, 357-364.	1.5	32
102	Crystal Growth of Ternary Alloy Semiconductor and Preliminary Study for Microgravity Experiment at the International Space Station. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2014, 12, Ph_31-Ph_35.	0.1	3
103	Growth, structural and optical characterization of L-histidine 4-nitrophenolate (LHPNP) single crystals for NLO applications. , 2014, , .		0
104	An investigation of flower shaped NiO nanostructures by microwave and hydrothermal route. Journal of Materials Science: Materials in Electronics, 2014, 25, 5231-5240.	1.1	32
105	Investigation of photocatalytic behavior of l-aspartic acid stabilized Zn(1â^'x)MnxS solid solutions on methylene blue. Applied Catalysis A: General, 2014, 476, 1-8.	2.2	12
106	Controlled synthesis and morphological investigation of self-assembled CuO nanostructures. Materials Letters, 2014, 121, 129-132.	1.3	20
107	Investigations on the growth aspects and characterization of semiorganic nonlinear optical single crystals of l-histidine and its hydrochloride derivative. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 121, 508-513.	2.0	15
108	Synthesis, growth, crystal structure and characterization of a new organic NLO crystal: l-Lysine 4-nitrophenolate monohydrate (LLPNP). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 130, 416-422.	2.0	14

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109	Determination of structural and optical parameters of CuO thin films prepared by double dip technique. Journal of Materials Science: Materials in Electronics, 2014, 25, 3885-3894.	1.1	43
110	Tailoring bismuth telluride nanostructures using a scalable sintering process and their thermoelectric properties. CrystEngComm, 2014, 16, 7956-7962.	1.3	21
111	High thermoelectric performance of (AgCrSe₂)_{0.5}(CuCrSe₂)_{0.5}nano-composites having all-scale natural hierarchical architectures. Journal of Materials Chemistry A, 2014, 2, 17122-17129.	5.2	82
112	Enhanced Thermoelectric Properties of Selenium-Deficient Layered TiSe_{2â€“x}: A Charge-Density-Wave Material. ACS Applied Materials & Interfaces, 2014, 6, 18619-18625.	4.0	21
113	Size and Surface Effects of Ce-Doped NiO and Co₃O₄ Nanostructures on Ferromagnetism Behavior Prepared by the Microwave Route. Journal of Physical Chemistry C, 2014, 118, 23335-23348.	1.5	65
114	Viscosity of Molten InSb, GaSb, and $$mathrm{{In}}_{x}mathrm{{Ga}}_{1-{x}}mathrm{{Sb}}$$ In x Ga 1 - x Sb Alloy Semiconductors. International Journal of Thermophysics, 2014, 35, 352-360.	1.0	2
115	Improved thermoelectric performance of hot pressed nanostructured n-type SiGe bulk alloys. Journal of Materials Chemistry A, 2014, 2, 6922.	5.2	145
116	Chemical synthesis and functional properties of hexamethylenetetramine capped ZnSe nanorods. Materials Letters, 2014, 125, 32-35.	1.3	4
117	Crystal growth, structural, thermal and mechanical behavior of l-arginine 4-nitrophenolate 4-nitrophenol dihydrate (LAPP) single crystals. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 133, 396-402.	2.0	15
118	Improvement of battery properties of LiMn₂O₄ thin films. Transactions of the Materials Research Society of Japan, 2014, 39, 415-418.	0.2	0
119	Hydrothermal growth of ligand-passivated high-surface-area TiO2 nanoparticles and dye-sensitized solar cell characteristics. Scripta Materialia, 2013, 68, 396-399.	2.6	11
120	Morphological evolution of monodispersed ZnO nanorods to 3 dimensional hierarchical flowers by hydrothermal growth. CrystEngComm, 2013, 15, 8246.	1.3	25
121	Effect of divalent metal ion impurities (Ba2+, Ca2+ and Mg2+) on the growth, structural and physical properties of KAP crystals. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 103, 187-192.	2.0	13
122	Grown-in microdefects and photovoltaic characteristics of heavily Ge co-doped Czochralski-grown p-type silicon crystals. Scripta Materialia, 2013, 69, 686-689.	2.6	3
123	Shape modification of Si nanowires by using faceted silicide catalysts nucleated in Au-Si catalyst solution during the growth. AIP Advances, 2013, 3, .	0.6	8
124	CuCrSe2: a high performance phonon glass and electron crystal thermoelectric material. Journal of Materials Chemistry A, 2013, 1, 11289.	5.2	85
125	Structural, compositional and optical analysis of InAsxSb1â^'x crystals grown by vertical directional solidification method. Journal of Alloys and Compounds, 2013, 548, 23-26.	2.8	5
126	Chemical synthesis and functional properties of monodispersed lanthanum phosphate nanorods. Materials Letters, 2013, 112, 16-19.	1.3	2

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127	Hydrothermal growth of monodispersed rutile TiO2 nanorods and functional properties. Materials Letters, 2013, 98, 38-41.	1.3	21
128	Germanium-doped Czochralski silicon: a novel material for solar cells. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1746-1749.	0.8	3
129	InAsSb thick epilayers applied to long wavelength photoconductors. International Journal of Minerals, Metallurgy and Materials, 2013, 20, 393-396.	2.4	5
130	Effect of deposition time on the chemical bath deposition method of ZnO thin films. AIP Conference Proceedings, 2013, , .	0.3	1
131	Solvothermal growth of high surface area mesoporous anatase TiO2 nanospheres and investigation of dye-sensitized solar cell properties. Journal of Power Sources, 2013, 242, 803-810.	4.0	35
132	Synthesis, structural, spectroscopic and optical studies of charge transfer complex salts. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 101, 178-183.	2.0	17
133	Growth and characterization of a novel nonlinear optical borate crystal â€“ Yttrium calcium borate (YCB). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 110, 391-394.	2.0	6
134	Role of Co doping on structural and morphological properties of SnO nanoparticle. , 2013, , .		0
135	Enhancement of saturation magnetization of NiO nanorods via microwave assisted route. , 2013, , .		1
136	Room temperature ethanol sensing property of cubic nanostructure tungsten oxide (WO[sub 3]). AIP Conference Proceedings, 2013, , .	0.3	5
137	The impact of Ge codoping on the enhancement of photovoltaic characteristics of B-doped Czochralski grown Si crystal. Journal of Applied Physics, 2012, 111, 043707.	1.1	10
138	Growth of InGaSb Alloy Semiconductor Bulk Crystals under Microgravity. Hyomen Kagaku, 2012, 33, 687-693.	0.0	0
139	Functional properties of amine-passivated ZnO nanostructures and dye-sensitized solar cell characteristics. Chemical Engineering Journal, 2012, 213, 70-77.	6.6	50
140	Chemical synthesis of ZnO hexagonal thin nanodisks and dyeâ€sensitized solar cell performance. Physica Status Solidi - Rapid Research Letters, 2012, 6, 120-122.	1.2	19
141	Current Status of Alloy Semiconductor Crystal Growth Project under Microgravity. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2012, 10, Th_1-Th_4.	0.1	0
142	Syntheses and Electrical Properties of Hexagonal Phase Group VI Metal Silicide Powders, Sintered Compacts and Bulk Crystals. IOP Conference Series: Materials Science and Engineering, 2011, 18, 142010.	0.3	1
143	Effect of Na Addition on Electric Properties of Ca2Si Sintered Compacts. IOP Conference Series: Materials Science and Engineering, 2011, 18, 142014.	0.3	7
144	Influence of pH and microwave calcination on the morphology of KGd(WO4)2 particles derived by Pechini Solâ€“Gel method. Journal of Sol-Gel Science and Technology, 2011, 58, 419-426.	1.1	26

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145	Effects of solutal convection on the dissolution of GaSb into InSb melt and solute transport mechanism in InGaSb solution: Numerical simulations and in-situ observation experiments. Journal of Crystal Growth, 2011, 324, 157-162.	0.7	14
146	Electrical properties of Ca2Si sintered compact synthesized by spark plasma sintering. Physics Procedia, 2011, 11, 106-109.	1.2	23
147	Thermoelectric properties of group VI metal silicide semiconductors. Physics Procedia, 2011, 11, 110-113.	1.2	19
148	Effect of pure and mixed solvents on the solubility, crystal growth and morphology of ethyl p-dimethylamino benzoate (EDMAB): An organic nonlinear optical material. Physica B: Condensed Matter, 2011, 406, 1410-1414.	1.3	4
149	Synthesis of single-phase polycrystalline Ca2Si powder and sintered compacts. International Journal of Materials Research, 2011, 102, 401-405.	0.1	5
150	Polymerized Complex Sol-Gel Synthesis, Structural and Optical Properties of Monoclinic Eu[sup 3+] Doped KGd(WO[sub 4])[sub 2] Crystalline Red Phosphors. , 2011, , .		0
151	In-situ observations of dissolution process of GaSb into InSb melt by X-ray penetration method. Journal of Crystal Growth, 2010, 312, 2677-2682.	0.7	16
152	Role of structural disorder in charge transport properties of cobalt phthalocyanine thin films grown by molecular-beam epitaxy. Organic Electronics, 2010, 11, 1835-1843.	1.4	18
153	Ethyl 4-(dimethylamino)benzoate. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o355-o355.	0.2	1
154	Effect of gravity on the growth of ternary alloy semiconductor bulk crystals. , 2010, , .		0
155	Alloy Semiconductor Crystal Growth Under Microgravity. , 2010, , .		0
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