

# G Anandha Babu

## List of Publications by Year in descending order

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74  
papers

1,282  
citations

331259

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395343

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75  
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75  
docs citations

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times ranked

1237  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced piezoelectric properties in Sm-doped $24\text{Pb}(\text{In}_{0.5}\text{Nb}_{0.5})\text{O}_3 \cdot 42\text{Pb}(\text{Mg}_{0.335}\text{Nb}_{0.665})\text{O}_3 \cdot 34\text{PbTiO}_3$ piezoceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 3264-3272.	1.1	5
2	Growth and characterization of $\text{Dy}_{1-x}\text{Y}_x\text{MnO}_3$ single crystals by optical floating zone technique: A combined X-ray diffraction and DC magnetization study. <i>Journal of Crystal Growth</i> , 2021, 565, 126152.	0.7	3
3	Evidence for Spin Glass Transition in Hexagonal $\text{DyMnO}_3$ without Substitutional Disorder. <i>Journal of Physical Chemistry C</i> , 2019, 123, 30499-30508.	1.5	12
4	Solvent dependent morphological modification of micro-nano assembled $\text{Mn}_2\text{O}_3/\text{NiO}$ composites for high performance supercapacitor applications. <i>Ceramics International</i> , 2019, 45, 4298-4307.	2.3	68
5	Studies on the growth and characterization of an organic single crystal "1,3,5- Triphenylbenzene. <i>Materials Research Innovations</i> , 2018, 22, 1-6.	1.0	10
6	On the growth mechanism of multicrystalline silicon ingots with small grains fabricated using single-layer silicon beads. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 075502.	0.8	5
7	Towards optimized nucleation control in multicrystalline silicon ingot for solar cells. <i>Journal of Crystal Growth</i> , 2017, 468, 620-624.	0.7	6
8	Structure and electrical properties of $0.80\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3 \cdot 0.16\text{K}_{0.5}\text{Bi}_{0.5}\text{TiO}_3 \cdot 0.04\text{BaTiO}_3$ lead-free piezoelectric ceramics. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	0
9	Growth, structural, optical, thermal and laser damage threshold studies of an organic single crystal: 1,3,5 "triphenylbenzene (TPB). <i>AIP Conference Proceedings</i> , 2016, , .	0.3	0
10	Improved multicrystalline silicon ingot quality using single layer silicon beads coated with silicon nitride as seed layer. <i>Journal of Crystal Growth</i> , 2016, 441, 124-130.	0.7	13
11	Structural characterization and magnetic properties of Co co-doped Ni/ZnO nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	55
12	Magnetic evolution in transition metal-doped $\text{Co}_3\text{M}_x\text{O}_4$ ( $\text{M}=\text{Ni, Fe, Mg and Zn}$ ) nanostructures. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	6
13	Effect of magnesium addition on structural and magnetic properties of NiO, $\text{Co}_3\text{O}_4$ nanoparticles. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	0
14	Influence of microwave power on the preparation of NiO nanoflakes for enhanced magnetic and supercapacitor applications. <i>Dalton Transactions</i> , 2015, 44, 4485-4497.	1.6	82
15	Microwave synthesis and magnetic investigations of surfactant assisted NiO nanostructures. <i>Materials Letters</i> , 2015, 149, 54-57.	1.3	11
16	Quantification of ferromagnetism in metal doped NiO nanostructures. <i>Materials Letters</i> , 2015, 161, 149-152.	1.3	13
17	Microwave synthesis and effect of CTAB on ferromagnetic properties of NiO, $\text{Co}_3\text{O}_4$ and $\text{NiCo}_2\text{O}_4$ nanostructures. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 219-232.	1.1	53
18	Investigation of structural and optical properties in $\text{LiInS}_2$ single crystal grown by Bridgman-Stockbarger method for mid IR laser application. <i>Materials Chemistry and Physics</i> , 2015, 149-150, 224-229.	2.0	6

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19	Growth and characterization of 4-chloro-3-nitrobenzophenone single crystals using vertical Bridgman technique. , 2014, , .		2
20	Modified Bridgman-Stockbarger growth and characterization of LiInSe <sub>2</sub> single crystal. , 2014, , .		0
21	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
22	Synthesis, growth and spectroscopic investigation of an organic molecular charge transfer crystal: 8-Hydroxy quinolinium 4-nitrobenzoate 4-nitrobenzoic acid. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 117, 259-263.	2.0	22
23	Investigation of optical property in LiInSe <sub>2</sub> single crystal grown by Bridgman Stockbarger method using stepper translations for mid IR laser application. Optics and Laser Technology, 2014, 56, 177-181.	2.2	18
24	Synthesis, crystal growth, spectral, optical, thermal and dielectric studies of dichloro(4-hydroxy-l-proline)cadmium(II) single crystals. Optik, 2014, 125, 1390-1395.	1.4	24
25	Silver gallium telluride (AgGaTe <sub>2</sub> ) single crystal: Synthesis, accelerated crucible rotation-Bridgman growth and characterization. Materials Science in Semiconductor Processing, 2014, 24, 44-49.	1.9	5
26	Synthesis, growth, structural, optical and thermal properties of a new organic salt crystal: 3-nitroanilinium trichloroacetate. Journal of Crystal Growth, 2014, 401, 323-326.	0.7	21
27	Synthesis, growth, spectral and thermal studies of a new organic salt crystal: Glycinium monochloroacetate. Materials Letters, 2014, 128, 366-368.	1.3	3
28	Synthesis, growth, spectral, and thermal studies of a new organic molecular charge transfer complex crystal: 3-Nitroaniline 4-methyl benzene sulfonate. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 122, 436-440.	2.0	19
29	Synthesis, crystal growth, structural, spectral, optical, thermal and dielectric studies of a new nonlinear optical material: 4-Hydroxy-l-proline-l-tartaric acid (1:1). Solid State Sciences, 2014, 28, 95-102.	1.5	20
30	Growth and physical characterization of AgGa <sub>1-x</sub> In <sub>x</sub> Se <sub>2</sub> (x=0.5) single crystals grown by modified vertical Bridgman method. Journal of Crystal Growth, 2014, 389, 139-143.	0.7	10
31	Characterization of 4-chloro-3-nitrobenzophenone crystal grown by Bridgman technique. Journal of Thermal Analysis and Calorimetry, 2014, 117, 1165-1169.	2.0	6
32	Synthesis, growth, structure and spectroscopic characterization of a new organic nonlinear optical hydrogen bonding complex crystal: 3-Carboxyl anilinium p-toluene sulfonate. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 125, 114-119.	2.0	22
33	Flux growth and characterization of lead-free Sodium Bismuth Titanate-Barium Titanate single crystals. Journal of Crystal Growth, 2014, 401, 787-790.	0.7	4
34	Growth and characterization of undoped and Mn doped lead-free piezoelectric NBT-KBT single crystals. Materials Research Bulletin, 2014, 53, 136-140.	2.7	32
35	Investigations on synthesis, growth and physical characterization of lithium selenoindate single crystals. Journal of Crystal Growth, 2014, 401, 205-209.	0.7	2
36	Growth and investigation of 0.80Na <sub>0.5</sub> Bi <sub>0.5</sub> Ti <sub>0.3</sub> 0.20K <sub>0.5</sub> Bi <sub>0.5</sub> Ti <sub>0.3</sub> lead-free single crystal. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 185, 134-137.	1.7	12

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37	Investigations on synthesis, growth, electrical and defect studies of lithium selenoindate single crystals. Journal of Crystal Growth, 2014, 388, 17-21.	0.7	11
38	Synthesis, growth, spectral, X-ray diffraction, magnetic and thermal studies of metal-organic complex: Diiodobis(2-aminopyridine)Cadmium(II) single crystal. Journal of Molecular Structure, 2013, 1042, 25-31.	1.8	3
39	Synthesis, structure and characterization of novel metal-organic single crystal: Dibromobis(L-proline)zinc(II). Journal of Molecular Structure, 2013, 1033, 121-126.	1.8	18
40	Growth and characterization of LiInS <sub>2</sub> single crystal by Bridgman technique. , 2013, , .		1
41	Synthesis, structure and characterization of novel metal-organic single crystal: Dibromobis(L-proline)zinc(II). , 2013, , .		0
42	Enhancement of saturation magnetization of NiO nanorods via microwave assisted route. , 2013, , .		1
43	Growth improvement and characterization of AgGaSe <sub>2</sub> chalcopyrite single crystals using Bridgman technique. , 2012, , .		0
44	Structural and mechanical studies of cadmium manganese thiocyanate crystal. , 2012, , .		0
45	Growth of <math>\gamma</math>-8-hydroxyquinoline organic crystal by Czochralski method and its characterizations. Journal of Thermal Analysis and Calorimetry, 2012, 110, 1333-1339.	2.0	15
46	Synthesis, growth and characterization of hydrogen bonding organic complex for SHG conversion: 3-hydroxyanilinium-2,5-dimethylbenzenesulphonate single crystal. Solid State Sciences, 2012, 14, 1141-1145.	1.5	2
47	Growth improvement of AgGaSe <sub>2</sub> single crystal using the vertical Bridgman technique with steady ampoule rotation and its characterization. Journal of Crystal Growth, 2012, 338, 42-46.	0.7	14
48	Synthesis, crystal growth and characterization of nonlinear optical organic crystal: p-Toluidinium p-toluenesulphonate. Materials Research Bulletin, 2012, 47, 957-962.	2.7	25
49	Synthesis, crystal structure, crystal growth and physical properties of N,N-diethyl anilinium picrate. Journal of Crystal Growth, 2011, 334, 159-164.	0.7	11
50	Growth and characterization of 2-amino-4-picolinium toluene sulfonate single crystal. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 82, 521-526.	2.0	47
51	Synthesis, structure, growth and physical properties of a novel organic NLO crystal: 1,3-Dimethylurea dimethylammonium picrate. Materials Research Bulletin, 2011, 46, 464-468.	2.7	30
52	Studies on the growth and physical properties of nonlinear optical crystal: 2-Amino-5-nitropyridinium-toluenesulfonate. Materials Research Bulletin, 2011, 46, 631-634.	2.7	28
53	Studies on the synthesis, structure, growth and physical properties of an organic NLO crystal: 2-Amino-5-nitropyridinium Phenolsulfonate. Materials Research Bulletin, 2011, 46, 2247-2251.	2.7	22
54	Studies on the synthesis, growth, crystal structure, and physical properties of a novel nonlinear optical crystal: Glycine 3,5-dihydroxybenzoic acid. Journal of Crystal Growth, 2011, 318, 1021-1025.	0.7	3

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55	Investigation on growth and characterization of dimethyl ammonium picrate (DMAP) single crystal grown by conventional and SR method. <i>Journal of Crystal Growth</i> , 2011, 324, 201-206.	0.7	33
56	Growth and characterization of organic molecular single crystal ethyl p-amino benzoate by selective self seeding from vertical Bridgman technique. <i>Journal of Crystal Growth</i> , 2010, 312, 2423-2426.	0.7	10
57	Crystal structure, crystal growth and characterization of novel organic NLO material: 2,4,4-trimethoxybenzophenone. <i>Materials Chemistry and Physics</i> , 2010, 119, 533-538.	2.0	23
58	Synthesis, growth, structural, thermal, linear and nonlinear optical properties of a new organic crystal: Dimethylammonium picrate. <i>Journal of Crystal Growth</i> , 2010, 312, 1957-1962.	0.7	83
59	Growth and characterization of an organic NLO material ammonium malate. <i>Current Applied Physics</i> , 2010, 10, 214-220.	1.1	27
60	Synthesis, crystal growth and characterization of novel semiorganic nonlinear optical crystal: Dichlorobis(l-proline)zinc(II). <i>Materials Chemistry and Physics</i> , 2009, 113, 727-733.	2.0	36
61	Synthesis, crystal growth and characterization of an efficient nonlinear optical D <sup>+</sup> -A type single crystal: 2-Aminopyridinium 4-nitrophenolate 4-nitrophenol. <i>Materials Chemistry and Physics</i> , 2009, 117, 326-330.	2.0	47
62	Crystal structure and characterization of a novel organic crystal: 4-Dimethylaminobenzophenone. <i>Materials Research Bulletin</i> , 2009, 44, 1265-1269.	2.7	3
63	Crystal structure and characterization of a novel organic optical crystal: 4-chloro-3-nitrobenzophenone. <i>Crystal Research and Technology</i> , 2009, 44, 561-566.	0.6	3
64	Growth and characterization of 4-Aminopyridinium-4-nitro phenolate single crystals. <i>Crystal Research and Technology</i> , 2009, 44, 675-681.	0.6	5
65	Studies on the growth and characterization of 2-aminopyridinium maleate-A novel nonlinear optical crystal. <i>Journal of Crystal Growth</i> , 2009, 311, 1185-1189.	0.7	30
66	Single crystal growth of 4-aminobenzophenone using nanoresolution translation by the Bridgman technique and its characterization. <i>Journal of Crystal Growth</i> , 2009, 311, 1607-1611.	0.7	9
67	Studies on the crystal growth, crystal structure, optical and thermal properties of an organic crystal: Benzophenone hydrazone. <i>Journal of Crystal Growth</i> , 2009, 311, 3461-3465.	0.7	19
68	Synthesis, Crystal Growth, and Characterization of an Organic Nonlinear Optical Donor-Acceptor Single Crystal: 2-Amino-5-nitropyridinium-Toluenesulfonate. <i>Crystal Growth and Design</i> , 2009, 9, 3333-3337.	1.4	46
69	Effect of additives in supersaturated binary and ternary solutions on cluster growth by gravity driven concentration gradient studies. <i>Crystal Research and Technology</i> , 2008, 43, 626-633.	0.6	3
70	Synthesis, crystal growth, structural, optical, thermal and mechanical properties of novel organic NLO material: Ammonium malate. <i>Journal of Crystal Growth</i> , 2008, 310, 1228-1238.	0.7	26
71	Synthesis, growth, thermal, optical, dielectric and mechanical properties of semi-organic NLO crystal: Potassium hydrogen malate monohydrate. <i>Journal of Crystal Growth</i> , 2008, 310, 2820-2826.	0.7	19
72	Investigation of crystal growth, structural, optical, dielectric, mechanical and thermal properties of a novel organic crystal: 4, 4-dimethylbenzophenone. <i>Journal of Crystal Growth</i> , 2008, 310, 3561-3567.	0.7	12

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73	Effect of 50MeV Li <sup>3+</sup> ion irradiation on electrical, optical and mechanical properties of 4,4-dimethylbenzophenone. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 5032-5036.	0.6	13
74	5-Phenoxymethyl-1,3,4-oxadiazole-2(3H)-thione. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, o3746-o3747.	0.2	2