

# George S Nolas

## List of Publications by Year in descending order

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98  
papers

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257450

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100  
docs citations

100  
times ranked

3633  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, Crystal Structure, and Physical Properties of $\text{BaSnS}_2$ . Physica Status Solidi - Rapid Research Letters, 2022, 16, .	2.4	2
2	Structural and thermal properties of ultralow thermal conductivity $\text{Ba}_3\text{Cu}_2\text{Sn}_3\text{Se}_{10}$ . Dalton Transactions, 2022, 51, 6220-6225.	3.3	3
3	Synthesis and characterization of phase-pure clathrate-II $\text{Rb}_{12.9}\text{Si}_{136}$ . Journal of Solid State Chemistry, 2022, 311, 123152.	2.9	3
4	Europium Clustering and Glassy Magnetic Behavior in Inorganic Clathrate-VIII $\text{Eu}_8\text{Ga}_{16}\text{Ge}_{30}$ . Materials, 2022, 15, 3439.	2.9	1
5	Synthesis, Bottom up Assembly and Thermoelectric Properties of Sb-Doped PbS Nanocrystal Building Blocks. Materials, 2021, 14, 853.	2.9	5
6	Atypical transport for $\text{GdTe}_{1.8}$ upon substitution with Se: Strong electron-phonon coupling in polaronic conduction. Scripta Materialia, 2021, 194, 113691.	5.2	0
7	Off-stoichiometric semiconductors $\text{Cu}_{1.33+x}\text{Zn}_{1.33-x}\text{In}_{1.33}\text{Se}_4$ ( $x = 0, 0.1, 0.2$ and $0.3$ ): Synthesis, structure, and thermal and electrical properties. Journal of Solid State Chemistry, 2021, 297, 122058.	2.9	3
8	Nano- and Micro-Structures Formed during Laser Processing of Selenium Doped Bismuth Telluride. Advanced Materials Interfaces, 2021, 8, 2100185.	3.7	9
9	Intrinsic anharmonicity and thermal properties of ultralow thermal conductivity $\text{Ba}_{26}\text{K}_{18}\text{Rn}_{12}\text{S}_{108}$ . Physical Review Materials, 2021, 5, .		
10	Grain orientation and transport properties of textured $\text{Bi}_2\text{Te}_3$ alloys. Materials Science in Semiconductor Processing, 2021, 133, 105979.	4.0	7
11	Synthesis, structure, electronic and thermal properties of sphalerite $\text{CuZn}_2\text{InS}_4$ . Dalton Transactions, 2021, 50, 17611-17617.	3.3	3
12	Thermal Properties of the Quaternary Chalcogenide $\text{BaCdSnSe}_4$ . Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000363.	2.4	3
13	Synthesis, crystal structure, and transport properties of $\text{Cu}_2\text{SnTe}_3$ . Journal of Solid State Chemistry, 2020, 290, 121566.	2.9	2
14	Thermal properties of $\text{BaCu}_2\text{SnQ}_4$ ( $Q = \text{S}, \text{Se}$ ) quaternary chalcogenides. Applied Physics Letters, 2020, 117, 092101.	3.3	3
15	Transport Properties of $\text{GdTe}_{1.8-x}\text{As}_x$ ( $x = 0, 0.04$ ). European Journal of Inorganic Chemistry, 2020, 2020, 2424-2427.	2.0	1
16	Thermal Properties of the Very Low Thermal Conductivity Ternary Chalcogenide $\text{Cu}_4\text{Bi}_4\text{M}_9$ ( $\text{M} = \text{S}, \text{Se}$ ). Tj ETOq0 0 0, rgBT /Over	2.4	4
17	The effect on the optical modes of quaternary chalcogenides upon metal and chalcogen substitution. Applied Physics Letters, 2020, 116, 082103.	3.3	3
18	Structural, Electronic, and Thermal Properties of $\text{CdSnAs}_2$ . Inorganic Chemistry, 2020, 59, 3079-3084.	4.0	5

#	ARTICLE	IF	CITATIONS
19	Synthesis, transport properties and electronic structure of p-type $\text{Cu}_{1+x}\text{Mn}_2\text{InTe}_4$ ( $x = 0, 0.2, 0.3$ ). Dalton Transactions, 2020, 49, 2273-2279.	3.3	12
20	Advanced Thermoelectrics. Journal of Applied Physics, 2020, 127, 060401.	2.5	7
21	Transport properties of topologically non-trivial bismuth tellurobromides $\text{Bi}_n\text{TeBr}$ . Journal of Applied Physics, 2019, 126, 105105.	2.5	2
22	Enhanced thermoelectric performance of heavy-fermion compounds $\text{Yb}_{2-x}\text{TM}_x\text{Zn}_{20}$ ( $\text{TM} = \text{Co, Rh, Ir}$ ) at low temperatures. Science Advances, 2019, 5, eaaw6183.	10.3	11
23	Zintl Phases as Reactive Precursors for Synthesis of Novel Silicon and Germanium-Based Materials. Materials, 2019, 12, 1139.	2.9	38
24	Electronic structure properties of $\text{CuZn}_2\text{InTe}_4$ and $\text{AgZn}_2\text{InTe}_4$ quaternary chalcogenides. Journal of Applied Physics, 2019, 125, 155101.	2.5	17
25	Structural, Chemical, Electrical, and Thermal Properties of n-Type $\text{NbFeSb}$ . Inorganic Chemistry, 2019, 58, 1826-1833.	4.0	8
26	Fermi surface of the flat-band intermetallics $\text{P}_3\text{d}_3$		

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37	Polaronic transport in Ag-based quaternary chalcogenides. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	20
38	High Temperature Transport Properties of Yb and In Double-Filled p-Type Skutterudites. <i>Crystals</i> , 2017, 7, 256.	2.2	6
39	Binary Alkali-Metal Silicon Clathrates by Spark Plasma Sintering: Preparation and Characterization. <i>Materials</i> , 2016, 9, 593.	2.9	8
40	Structure and Transport Properties of Dense Polycrystalline Clathrate-II (K,Ba) <sub>16</sub> (Ga,Sn) <sub>136</sub> Synthesized by a New Approach Employing SPS. <i>Materials</i> , 2016, 9, 732.	2.9	3
41	Apparatus for the measurement of electrical resistivity, Seebeck coefficient, and thermal conductivity of thermoelectric materials between 300 K and 12 K. <i>Review of Scientific Instruments</i> , 2016, 87, 015105.	1.3	39
42	Clathrates and beyond: Low-density allotropy in crystalline silicon. <i>Applied Physics Reviews</i> , 2016, 3, .	11.3	24
43	Porosity Effects on the Thermoelectric Properties of Nanostructured Bismuth. <i>Journal of Electronic Materials</i> , 2016, 45, 1970-1973.	2.2	2
44	Synthesis, crystal structure and electrical properties of the tetrahedral quaternary chalcogenides CuM <sub>2</sub> InTe <sub>4</sub> (M=Zn, Cd). <i>Journal of Solid State Chemistry</i> , 2016, 242, 50-54.	2.9	25
45	Precursor routes to quaternary intermetallics: Synthesis, crystal structure, and physical properties of clathrate-II Cs <sub>8</sub> Na <sub>16</sub> Al <sub>24</sub> Si <sub>112</sub> . <i>Journal of Solid State Chemistry</i> , 2016, 237, 81-85.	2.9	11
46	High temperature thermoelectric properties of Ba <sub>x</sub> Yb <sub>y</sub> Fe <sub>3</sub> CoSb <sub>12</sub> p-type skutterudites. <i>Journal of Materials Research</i> , 2015, 30, 2558-2563.	2.6	6
47	Bournonite PbCuSb <sub>3</sub> : Stereochemically Active Lone Pair Electrons that Induce Low Thermal Conductivity. <i>ChemPhysChem</i> , 2015, 16, 3264-3270.	2.1	56
48	Rapid crystal growth of type-II clathrates A <sub>8</sub> Na <sub>16</sub> Si <sub>136</sub> (A = K, Rb,) <a href="#">Tj ETQq000 rgBT, Overlock</a>	2.6	9
49	Synthesis, characterization and alloying of Cu <sub>2</sub> ZnSnQ <sub>4</sub> (Q=S, Se and Te) nanocrystals. <i>Journal of Solid State Chemistry</i> , 2015, 226, 215-218.	2.9	16
50	High-temperature thermoelectric properties of p-type skutterudites Ba <sub>0.15</sub> Yb <sub>x</sub> Co <sub>3</sub> FeSb <sub>12</sub> and Yb <sub>y</sub> Co <sub>3</sub> FeSb <sub>9</sub> As <sub>3</sub> . <i>Journal of Materials Science</i> , 2015, 50, 34-39.	3.7	11
51	Synthesis, crystal structure, and transport properties of quaternary tetrahedral chalcogenides. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10436-10441.	5.5	11
52	Synthesis and Characterization of Bournonite PbCuSb <sub>3</sub> Nanocrystals. <i>Crystal Growth and Design</i> , 2015, 15, 3762-3766.	3.0	8
53	Synthesis and Characterization of Nanostructured Stannite Cu <sub>2</sub> ZnSnSe <sub>4</sub> and Ag <sub>2</sub> ZnSnSe <sub>4</sub> for Thermoelectric Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 9752-9757.	8.0	57
54	Synthesis and structural properties of type I potassium SiGe alloy clathrates. <i>Materials Letters</i> , 2015, 149, 123-126.	2.6	3

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55	Precursor Routes to Complex Ternary Intermetallics: Single-Crystal and Microcrystalline Preparation of Clathrate-I $\text{Na}_8\text{Al}_8\text{Si}_{38}$ from $\text{NaSi} + \text{NaAlSi}$ . <i>Inorganic Chemistry</i> , 2015, 54, 5316-5321.	4.0	21
56	Synthesis, crystal structure, and transport properties of $\text{Cu}_{2.2}\text{Zn}_{0.8}\text{SnSe}_4$ (0.1 at% x 0.4). <i>Dalton Transactions</i> , 2015, 44, 9014-9019.	3.3	19
57	Crystal Growth through Field-Assisted Electrochemical Redox and Ion-Exchange Reactions: A Case Study of $\text{K}_{4.2}\text{Na}_{3.8}\text{Si}_{46}$ Clathrate-I. <i>Crystal Growth and Design</i> , 2015, 15, 4731-4734.	3.0	4
58	Enhanced thermoelectric properties of $\text{Cu}_2\text{ZnSnSe}_4$ with Ga-doping. <i>Journal of Alloys and Compounds</i> , 2015, 650, 844-847.	5.5	33
59	Better thermoelectrics through glass-like crystals. <i>Nature Materials</i> , 2015, 14, 1182-1185.	27.5	212
60	Synthesis and thermoelectric properties of Cu excess $\text{Cu}_2\text{ZnSnSe}_4$ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 61-64.	2.4	73
61	Low-Temperature $^{23}\text{Na}$ MAS NMR Reveals Dynamic Effects and Compositions for the Large and Small Channels in the Zeolite-Like Ge-Framework of $\text{Na}_1\text{Ge}_3\text{Z}$ Materials. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28890-28897.	3.1	4
62	Crystal structure and high temperature transport properties of Yb-filled p-type skutterudites $\text{Yb}_x\text{Co}_{2.5}\text{Fe}_{1.5}\text{Sb}_{12}$ . <i>Journal of Solid State Chemistry</i> , 2014, 209, 1-5.	2.9	18
63	Synthesis, transport properties, and electronic structure of $\text{Cu}_2\text{CdSnTe}_4$ . <i>Applied Physics Letters</i> , 2014, 104, .	3.3	25
64	Controllable Synthesis of Bismuth Chalcogenide Core-shell Nanorods. <i>Crystal Growth and Design</i> , 2014, 14, 533-536.	3.0	15
65	Synthesis, SPS processing and low temperature transport properties of polycrystalline $\text{FeSb}_2$ with nano-scale grains. <i>Materials Letters</i> , 2014, 122, 289-291.	2.6	11
66	Synthetic Approaches to Intermetallic Clathrates. <i>Springer Series in Materials Science</i> , 2014, , 65-90.	0.6	2
67	Transport properties of partially filled skutterudite derivatives $\text{Ce}_{0.13}\text{Co}_4\text{Ge}_4$ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 418-420.	3.2	8
68	High-temperature thermoelectric properties of p-type skutterudites $\text{Yb}_x\text{Co}_3\text{FeSb}_{12}$ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 418-420.	2.4	8
69	Synthesis, Crystal Structure, and High Temperature Transport Properties of p-Type $\text{Cu}_2\text{Zn}_1\text{Fe}_1\text{SnSe}_4$ . <i>Inorganic Chemistry</i> , 2013, 52, 14364-14367.	4.0	33
70	Influence of guest loading on thermal properties of $\text{Na}_x\text{Si}_{136}$ clathrates. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 435401.	1.8	5
71	Synthesis and low-temperature transport properties of polycrystalline $\text{NiSe}_2$ . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 2725-2728.	1.8	7
72	Synthesis and Structural Characterization of $\text{Na}_x\text{Si}_{136}$ (0 < x < 1) Tj ETQq0 0 0 rgBT /Overlock 10 Chemistry, 2012, 51, 8686-8692.	4.0	53

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73	Solution-Based Synthesis and Low-Temperature Transport Properties of CsBi <sub>4</sub> Te <sub>6</sub> . ACS Applied Materials & Interfaces, 2012, 4, 772-776.	8.0	11
74	Synthesis and Characterization of Nanocrystalline FeSb <sub>2</sub> for Thermoelectric Applications. European Journal of Inorganic Chemistry, 2012, 2012, 55-58.	2.0	16
75	Composition controlled synthesis of Bi rich Bi <sub>1-x</sub> Sbx alloy nanocrystals by a low temperature polyol process. CrystEngComm, 2011, 13, 2753.	2.6	18
76	Simple Approach for Selective Crystal Growth of Intermetallic Clathrates. Chemistry of Materials, 2011, 23, 1491-1495.	6.7	52
77	Synthesis and Structural Characterization of Single-Crystal K <sub>7.5</sub> Si <sub>46</sub> and K <sub>17.8</sub> Si <sub>136</sub> Clathrates. Crystal Growth and Design, 2011, 11, 4533-4537.	3.0	38
78	Origin of the magnetic anomaly and tunneling effect of europium on the ferromagnetic ordering in $\text{Eu}_x\text{Sr}_{1-x}\text{Ga}_{16}\text{Sb}_{16}$ . Physical Review B, 2011, 84, .	3.2	70
79	Framework Contraction in Na-Stuffed Si( <i>cF</i> 136). Inorganic Chemistry, 2010, 49, 5338-5340.	4.0	52
80	Facile Chemical Synthesis of Nanocrystalline Thermoelectric Alloys Based on Bi <sub>2</sub> Sb <sub>2</sub> Te <sub>2</sub> Se. Crystal Growth and Design, 2010, 10, 3983-3989.	3.0	52
81	X-ray absorption spectroscopy studies of local structure and electronic properties of $\text{Na}_x\text{Bi}_{1-x}\text{Sb}_{16}\text{Te}_{16}$ . $\text{Na}_x\text{Bi}_{1-x}\text{Sb}_{16}\text{Te}_{16}$		

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91	Synthesis and Characterization of Bulk and Thin Film Clathrates for Solid State Power Conversion Applications. , 2006, , .		1
92	Neutron and nuclear inelastic scattering study of the Einstein oscillators in Ba-, Sr-, and Eu-filled germanium clathrates. Physical Review B, 2005, 72, .	3.2	63
93	Thermal conductivity measurement under hydrostatic pressure using the $3\bar{1}\%$ method. Review of Scientific Instruments, 2004, 75, 4578-4584.	1.3	48
94	Thermoelectrics. Springer Series in Materials Science, 2001, , .	0.6	1,222
95	Electronic Structure and Thermoelectric Properties of Ytterbium-Filled Skutterudites. Materials Research Society Symposia Proceedings, 2001, 691, 1.	0.1	7
96	High Pressure Synthesis of New Filled Skutterudites. Materials Research Society Symposia Proceedings, 2001, 691, 1.	0.1	8
97	Thermoelectric Clathrates. American Scientist, 2001, 89, 136.	0.1	48
98	Transport Properties of Sn <sub>24</sub> P <sub>19.3</sub> Br <sub>8</sub> Sn <sub>17</sub> Zn <sub>7</sub> P <sub>22</sub> Br <sub>8</sub> . Ceramic Engineering and Science Proceedings, 0, , 77-84.	0.1	0