

# Matt Beekman

## List of Publications by Year in descending order

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64  
papers

2,023  
citations

304743

22  
h-index

243625

44  
g-index

70  
all docs

70  
docs citations

70  
times ranked

2156  
citing authors



#	ARTICLE	IF	CITATIONS
19	Detection of nanoscale embedded layers using laboratory specular X-ray diffraction. Journal of Applied Physics, 2015, 117, 185306.	2.5	5
20	Synthesis and Thermal Properties of Solid-State Structural Isomers: Ordered Intergrowths of SnSe and MoSe <sub>2</sub> . Journal of the American Chemical Society, 2015, 137, 8803-8809.	13.7	23
21	Precursor Routes to Complex Ternary Intermetallics: Single-Crystal and Microcrystalline Preparation of Clathrate-I Na <sub>8</sub> Al <sub>8</sub> Si <sub>38</sub> from NaSi + NaAlSi. Inorganic Chemistry, 2015, 54, 5316-5321.	4.0	21
22	New hopes for allotropes. Materials Today, 2015, 18, 304-305.	14.2	18
23	Better thermoelectrics through glass-like crystals. Nature Materials, 2015, 14, 1182-1185.	27.5	212
24	Low-Temperature <sup>23</sup> Na MAS NMR Reveals Dynamic Effects and Compositions for the Large and Small Channels in the Zeolite-Like Ge-Framework of Na <sub>4</sub> Ge <sub>3</sub> Materials. Journal of Physical Chemistry C, 2014, 118, 28890-28897.	3.1	4
25	Synthesis, structure, and thermal conductivity of [(SnSe) <sub>1</sub> + <sub>n</sub> ] [MoSe <sub>2</sub> ] <sub>n</sub> compounds. Semiconductor Science and Technology, 2014, 29, 124007.	2.0	11
26	Ferrecrystals: non-epitaxial layered intergrowths. Semiconductor Science and Technology, 2014, 29, 064012.	2.0	50
27	Mentoring Graduate Students in Research and Teaching by Utilizing Research as a Template. Journal of Chemical Education, 2014, 91, 200-205.	2.3	8
28	Raman Spectroscopy Insights into the Size-Induced Structural Transformation in SnSe Nanolayers. Langmuir, 2014, 30, 8209-8214.	3.5	14
29	Telluride Misfit Layer Compounds: [(PbTe) <sub>1.17</sub> ] <sub>m</sub> (TiTe <sub>2</sub> ) <sub>n</sub> . Angewandte Chemie - International Edition, 2014, 53, 5672-5675.	13.8	30
30	Synthetic Approaches to Intermetallic Clathrates. Springer Series in Materials Science, 2014, , 65-90.	0.6	2
31	Inorganic Clathrates for Thermoelectric Applications. Springer Series in Materials Science, 2014, , 169-191.	0.6	15
32	Characterization of Nonstoichiometric Ti <sub>1+x</sub> Se <sub>2</sub> Prepared by the Method of Modulated Elemental Reactants. Journal of Electronic Materials, 2013, 42, 1647-1651.	2.2	4
33	Synthesis, Structure, and Properties of Turbostratically Disordered (PbSe) <sub>1.18</sub> (TiSe <sub>2</sub> ) <sub>2</sub> . Chemistry of Materials, 2013, 25, 2404-2409.	6.7	51
34	Influence of guest loading on thermal properties of Na <sub>x</sub> Si <sub>136</sub> clathrates. Journal of Physics Condensed Matter, 2013, 25, 435401.	1.8	5
35	Controlling Size-Induced Phase Transformations Using Chemically Designed Nanolaminates. Angewandte Chemie - International Edition, 2013, 52, 13211-13214.	13.8	33
36	Structural and electrical properties of (PbSe) <sub>1.16</sub> TiSe <sub>2</sub> . Emerging Materials Research, 2012, 1, 292-298.	0.7	22

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37	Structure of Turbostratically Disordered Misfit Layer Compounds $[(\text{PbSe})_{0.99}]_1[\text{WSe}_2]_1$ , $[(\text{PbSe})_{1.00}]_1[\text{MoSe}_2]_1$ , and $[(\text{SnSe})_{1.03}]_1[\text{MoSe}_2]_1$ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012, 638, 2632-2638.	1.2	27
38	New Layered Intergrowths in the Sn-Mo-Se System. <i>Journal of Electronic Materials</i> , 2012, 41, 1476-1480.	2.2	27
39	Simple Approach for Selective Crystal Growth of Intermetallic Clathrates. <i>Chemistry of Materials</i> , 2011, 23, 1491-1495.	6.7	52
40	New Compounds Consisting of Turbostratic Intergrowths: Ultra-low Thermal Conductivities and Tunable Electric Properties. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1329, 1.	0.1	3
41	Probing the Effects of Alloying, Grain Size, and Turbostratic Disorder on Thermal Conductivity. <i>Science of Advanced Materials</i> , 2011, 3, 639-645.	0.7	19
42	Tunable dielectric thin films by aqueous, inorganic solution-based processing. <i>Solid State Sciences</i> , 2011, 13, 2037-2040.	3.2	18
43	Synthesis of four new members of the $(\text{PbSe})_{1.16}(\text{TiSe})_n$ ( $n = 1, 2, 3, \text{ and } 4$ ) Family of ferecrystals. , 2011, , .		2
44	Influence of selenium vapor postannealing on the electrical transport properties of $\text{PbSe}/\text{WSe}_2$ nanolaminates. <i>Journal of Materials Research</i> , 2011, 26, 1866-1871.	2.6	18
45	Structure and thermal conductivity of $\text{Na}^{1+}\text{Ge}_3^+$ . <i>Journal of Solid State Chemistry</i> , 2010, 183, 1272-1277.	2.9	11
46	In-plane thermal and thermoelectric properties of misfit-layered $[(\text{PbSe})_{0.99}]_x(\text{WSe}_2)_x$ superlattice thin films. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	38
47	A study of low-energy guest phonon modes in clathrate-II $\text{Na}_x\text{Si}_{136}$ ( $x = 3, 23, \text{ and } 24$ ). <i>Journal of Physics Condensed Matter</i> , 2010, 22, 355401.	1.8	15
48	Framework Contraction in Na-Stuffed $\text{Si}_x\text{F}_{136}$ . <i>Inorganic Chemistry</i> , 2010, 49, 5338-5340.	4.0	52
49	Characterization of delafossite-type $\text{CuCoO}_2$ prepared by ion exchange. <i>Journal of Alloys and Compounds</i> , 2010, 489, 336-338.	5.5	55
50	X-ray absorption spectroscopy studies of local structure and electronic properties of $\text{Na}_x\text{Si}_{136}$ . <i>Journal of Physics Condensed Matter</i> , 2010, 22, 355401.		

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55	Preparation and Crystal Growth of Na <sub>24</sub> Si <sub>136</sub> . Journal of the American Chemical Society, 2009, 131, 9642-9643.	13.7	91
56	Inorganic clathrate-II materials of group 14: synthetic routes and physical properties. Journal of Materials Chemistry, 2008, 18, 842-851.	6.7	176
57	Synthesis and Characterization of Inorganic Clathrate-II Materials. Materials Research Society Symposia Proceedings, 2007, 1044, 1.	0.1	3
58	Synthesis and crystal structure of Na <sub>1-x</sub> Ge <sub>3+z</sub> : a novel zeolite-like framework phase in the Na-Ge system. Chemical Communications, 2007, , 837-839.	4.1	22
59	Synthesis and single-crystal X-ray diffraction studies of new framework substituted type II clathrates, Cs <sub>8</sub> Na <sub>16</sub> Ag <sub>x</sub> Ge <sub>136-x</sub> (x < 7). Journal of Solid State Chemistry, 2007, 180, 1076-1082.	2.9	33
60	Transport Properties of the Binary Type I Clathrate K <sub>8</sub> Ge <sub>44</sub> -j <sub>2</sub> . International Journal of Applied Ceramic Technology, 2007, 4, 332-338.	2.1	20
61	Synthesis and Characterization of Bulk and Thin Film Clathrates for Solid State Power Conversion Applications. , 2006, , .		1
62	Synthesis and thermal conductivity of type II silicon clathrates. Physica B: Condensed Matter, 2006, 383, 111-114.	2.7	50
63	Thermal conductivity of elemental crystalline silicon clathrate Si <sub>136</sub> . Applied Physics Letters, 2003, 82, 910-912.	3.3	98
64	Methods of Electron Crystallography as Tools for Materials Analysis. Solid State Phenomena, 0, 186, 1-6.	0.3	1