

# David C Johnson

## List of Publications by Citations

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216  
papers

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30  
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53  
g-index

232  
ext. papers

4,277  
ext. citations

7.7  
avg, IF

5.37  
L-index

#	Paper	IF	Citations
216	Ultralow thermal conductivity in disordered, layered WSe <sub>2</sub> crystals. <i>Science</i> , <b>2007</b> , 315, 351-3	33.3	646
215	Lower limit to the lattice thermal conductivity of nanostructured Bi <sub>2</sub> Te <sub>3</sub> -based materials. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 073503	2.5	78
214	New synthetic approach to extended solids: selective synthesis of iron silicides via the amorphous state. <i>Journal of the American Chemical Society</i> , <b>1991</b> , 113, 3398-3403	16.4	75
213	Deposition system for the synthesis of modulated, ultrathin-film composites. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1993</b> , 11, 3014-3019	2.9	74
212	Rational Synthesis of Metastable Skutterudite Compounds Using Multilayer Precursors. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 2665-2668	16.4	73
211	Low thermal conductivity in nanoscale layered materials synthesized by the method of modulated elemental reactants. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 033533	2.5	72
210	Controlling solid-state reaction mechanisms using diffusion length in ultrathin-film superlattice composites. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 4639-4644	16.4	72
209	Rational design of efficient electrode-electrolyte interfaces for solid-state energy storage using ion soft landing. <i>Nature Communications</i> , <b>2016</b> , 7, 11399	17.4	66
208	Rational Synthesis and Characterization of a New Family of Low Thermal Conductivity Misfit Layer Compounds [(PbSe) <sub>0.99</sub> ] <sub>m</sub> (WSe <sub>2</sub> ) <sub>n</sub> . <i>Chemistry of Materials</i> , <b>2010</b> , 22, 1002-1009	9.6	65
207	In-plane thermal conductivity of disordered layered WSe <sub>2</sub> and (W) <sub>x</sub> (WSe <sub>2</sub> ) <sub>y</sub> superlattice films. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 171912	3.4	64
206	Controlled synthesis of new compounds using modulated elemental reactants. <i>Current Opinion in Solid State and Materials Science</i> , <b>1998</b> , 3, 159-167	12	61
205	The synthesis and characterization of new [(BiSe) <sub>1.10</sub> ] <sub>m</sub> [NbSe <sub>2</sub> ] <sub>n</sub> , [(PbSe) <sub>1.10</sub> ] <sub>m</sub> [NbSe <sub>2</sub> ] <sub>n</sub> , [(CeSe) <sub>1.14</sub> ] <sub>m</sub> [NbSe <sub>2</sub> ] <sub>n</sub> and [(PbSe) <sub>1.12</sub> ] <sub>m</sub> [TaSe <sub>2</sub> ] <sub>n</sub> misfit layered compounds. <i>Journal of Solid State Chemistry</i> , <b>2008</b> , 181, 1701-1706	3.3	59
204	Determination of the composition of Ultra-thin Ni-Si films on Si: constrained modeling of electron probe microanalysis and x-ray reflectivity data. <i>X-Ray Spectrometry</i> , <b>2008</b> , 37, 608-614	0.9	58
203	Synthesis of [(SnSe) <sub>1.15</sub> ] <sub>m</sub> (TaSe <sub>2</sub> ) <sub>n</sub> Ferecrystals: Structurally Tunable Metallic Compounds. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 4594-4599	9.6	53
202	Dynamic instabilities in strongly correlated VSe <sub>2</sub> monolayers and bilayers. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	51
201	Synthesis of Metastable Post-Transition-Metal Iron Antimony Skutterudites Using the Multilayer Precursor Method. <i>Chemistry of Materials</i> , <b>1998</b> , 10, 1096-1101	9.6	50
200	Ferecrystals: non-epitaxial layered intergrowths. <i>Semiconductor Science and Technology</i> , <b>2014</b> , 29, 064012.8		48

199	Suppressing a charge density wave by changing dimensionality in the ferecrystalline compounds $[(\text{SnSe})_{1.15}]_1(\text{VSe}_2)_n$ with $n = 1, 2, 3, 4$ . <i>Nano Letters</i> , <b>2015</b> , 15, 943-8	11.5	45
198	Synthesis, Structure, and Properties of Turbostratically Disordered $(\text{PbSe})_{1.18}(\text{TiSe}_2)_2$ . <i>Chemistry of Materials</i> , <b>2013</b> , 25, 2404-2409	9.6	45
197	Control of Reaction Pathway and the Nanostructure of Final Products through the Design of Modulated Elemental Reactants. <i>Chemistry of Materials</i> , <b>1996</b> , 8, 1625-1635	9.6	44
196	Misfit Layer Compounds and Ferecrystals: Model Systems for Thermoelectric Nanocomposites. <i>Materials</i> , <b>2015</b> , 8, 2000-2029	3.5	43
195	Systematic Study of New Rare Earth Element-Iron-Antimony Skutterudites Synthesized Using Multilayer Precursors. <i>Inorganic Chemistry</i> , <b>1997</b> , 36, 4270-4274	5.1	42
194	Demonstration of thin film pair distribution function analysis (tPDF) for the study of local structure in amorphous and crystalline thin films. <i>IUCrJ</i> , <b>2015</b> , 2, 481-9	4.7	41
193	Synthesis, structure and electrical properties of a new tin vanadium selenide. <i>Journal of Solid State Chemistry</i> , <b>2013</b> , 202, 128-133	3.3	39
192	Designed synthesis, structure, and properties of a family of ferecrystalline compounds $[(\text{PbSe})_{1.00}]_m(\text{MoSe}_2)_n$ . <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 11055-62	16.4	39
191	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> , <b>2010</b> , 96, 181908	3.4	36
190	Charge Transfer between PbSe and NbSe <sub>2</sub> in $[(\text{PbSe})_{1.14}]_m(\text{NbSe}_2)_1$ Ferecrystalline Compounds. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 1859-1866	9.6	34
189	Controlling size-induced phase transformations using chemically designed nanolaminates. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 13211-4	16.4	32
188	In-plane structure of ferecrystalline compounds. <i>Crystal Research and Technology</i> , <b>2015</b> , 50, 464-472	1.3	30
187	Effects of Composition and Annealing on the Electrical Properties of CoSb <sub>3</sub> . <i>Chemistry of Materials</i> , <b>2003</b> , 15, 3847-3851	9.6	30
186	Use of Superlattice Structure To Control Reaction Mechanism: Kinetics and Energetics of Nb <sub>5</sub> Se <sub>4</sub> Formation. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 9136-9140	16.4	30
185	The Synthesis, Structure, and Electrical Characterization of $(\text{SnSe})_{1.2}\text{TiSe}_2$ . <i>European Journal of Inorganic Chemistry</i> , <b>2015</b> , 2015, 83-91	2.3	29
184	Designed Synthesis of Families of Misfit-Layered Compounds. <i>European Journal of Inorganic Chemistry</i> , <b>2008</b> , 2008, 2382-2385	2.3	29
183	Design and synthesis of $[(\text{Bi}_2\text{Te}_3)_x(\text{TiTe}_2)_y]$ superlattices. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 5296-9	16.4	29
182	Synthesis and Properties of Turbostratically Disordered, Ultrathin WSe <sub>2</sub> Films. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 2750-2756	9.6	28

181	Synthesis and Systematic Trends in Structure and Electrical Properties of $[(\text{SnSe})_{1.15}]_m(\text{VSe}_2)_1$ , $m = 1, 2, 3$ , and 4. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 2862-2872	9.6	27
180	Designed Synthesis of van der Waals Heterostructures: The Power of Kinetic Control. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 15468-72	16.4	27
179	Composition dependence of the nucleation energy of iron antimonides from modulated elemental reactants. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 1645-9	16.4	27
178	Size-dependent structural distortions in one-dimensional nanostructures. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 1982-5	16.4	26
177	New Layered Intergrowths in the Sn-Mo-Se System. <i>Journal of Electronic Materials</i> , <b>2012</b> , 41, 1476-1480	1.9	26
176	Sub-Monolayer Accuracy in Determining the Number of Atoms per Unit Area in Ultrathin Films Using X-ray Fluorescence. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 6209-6216	9.6	25
175	Telluride misfit layer compounds: $[(\text{PbTe})_{1.17}]_m(\text{TiTe})_n$ . <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 5672-5	16.4	25
174	Functional Ultrathin Films and Nanolaminates from Aqueous Solutions. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 210-214	9.6	25
173	Structural and Electrical Properties of $[(\text{SnSe})_{1+n}]_m(\text{NbSe}_2)_1$ Compounds: Single $\text{NbSe}_2$ Layers Separated by Increasing Thickness of $\text{SnSe}$ . <i>Chemistry of Materials</i> , <b>2015</b> , 27, 867-875	9.6	25
172	Effective atomic layer deposition procedure for Al-dopant distribution in ZnO thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2010</b> , 28, 1111-1114	2.9	25
171	Controlling Solid-State Reaction Pathways: Composition Dependence in the Nucleation Energy of $\text{InSe}$ . <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 2422-2426	16.4	25
170	Heterostructures containing dichalcogenides-new materials with predictable nanoarchitectures and novel emergent properties. <i>Semiconductor Science and Technology</i> , <b>2017</b> , 32, 093004	1.8	24
169	Synthesis and characterization of turbostratically disordered $(\text{BiSe})_{1.15}\text{TiSe}_2$ . <i>Semiconductor Science and Technology</i> , <b>2014</b> , 29, 064004	1.8	24
168	Insights into the Self-Assembly of Ferrocristalline Compounds from Designed Amorphous Precursors. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 1744-1750	9.6	24
167	Low-temperature reaction of buried metal-silicon interfaces: the evolution of interfacial structure. <i>Chemistry of Materials</i> , <b>1992</b> , 4, 473-478	9.6	24
166	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> , <b>2012</b> , 638, 2632-2639	1.3	23
165	Impact of Relative Humidity during Spin-Deposition of Metal Oxide Thin Films from Aqueous Solution Precursors. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 2921-2926	9.6	22
164	Influence of Defects on the Charge Density Wave of $[(\text{SnSe})_{(1+n)}]_1(\text{VSe}_2)_1$ Ferrocristals. <i>ACS Nano</i> , <b>2015</b> , 9, 8440-8	16.7	22

163	Avoiding Binary Compounds as Reaction Intermediates in Solid State Reactions. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 3996-4002	9.6	22
162	Kinetically Controlled Site-Specific Substitutions in Higher-Order Heterostructures. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 4066-4072	9.6	22
161	Designed Synthesis of Solid State Structural Isomers from Modulated Reactants. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 9117-9122	16.4	22
160	Structural and electrical properties of a new $[(\text{SnSe})_{1.16}(\text{NbSe}_2)_1]$ polytype. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 619, 861-868	5.7	21
159	Synthesis of inorganic structural isomers by diffusion-constrained self-assembly of designed precursors: a novel type of isomerism. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 1130-4	16.4	21
158	Cross-Plane Seebeck Coefficient Measurement of Misfit Layered Compounds $(\text{SnSe})(\text{TiSe})$ ( $n = 1,3,4,5$ ). <i>Nano Letters</i> , <b>2017</b> , 17, 1978-1986	11.5	20
157	Structural and electrical properties of $(\text{PbSe})_{1-x}(\text{TiSe}_2)_x$ . <i>Emerging Materials Research</i> , <b>2012</b> , 1, 292-298	1.4	20
156	Vapor Annealing as a Post-Processing Technique to Control Carrier Concentrations of $\text{Bi}_2\text{Te}_3$ Thin Films. <i>Journal of Electronic Materials</i> , <b>2010</b> , 39, 1981-1986	1.9	20
155	Variation of the Nucleation Energy of Molybdenum Silicides as a Function of the Composition of an Amorphous Precursor. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 5226-5232	16.4	20
154	The synthesis of $[(\text{Bi}_2\text{Te}_3)_x(\text{TiTe}_2)_y]_{1.36}$ superlattices from modulated elemental reactants. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 7843-8	16.4	19
153	Synthesis and Thermal Properties of Solid-State Structural Isomers: Ordered Intergrowths of $\text{SnSe}$ and $\text{MoSe}_2$ . <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 8803-9	16.4	18
152	Synthesis and Characterization of Quaternary Monolayer Thick $\text{MoSe}_2/\text{SnSe}/\text{NbSe}_2/\text{SnSe}$ Heterojunction Superlattices. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6411-6417	9.6	18
151	Probing the Effects of Alloying, Grain Size, and Turbostratic Disorder on Thermal Conductivity. <i>Science of Advanced Materials</i> , <b>2011</b> , 3, 639-645	2.3	18
150	Influence of selenium vapor postannealing on the electrical transport properties of $\text{PbSe}/\text{WSe}_2$ nanolaminates. <i>Journal of Materials Research</i> , <b>2011</b> , 26, 1866-1871	2.5	17
149	Conquering the Low-k Death Curve: Insulating Boron Carbide Dielectrics with Superior Mechanical Properties. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600073	6.4	17
148	Amorphous Mixed-Metal Oxide Thin Films from Aqueous Solution Precursors with Near-Atomic Smoothness. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 16800-16808	16.4	17
147	Structural Evolution of Iron Antimonides from Amorphous Precursors to Crystalline Products Studied by Total Scattering Techniques. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 9652-8	16.4	16
146	Corrosion Resistance of Atomic Layer Deposition-Generated Amorphous Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 30644-30648	9.5	16

145	Non-uniform Composition Profiles in Inorganic Thin Films from Aqueous Solutions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 667-72	9.5	16
144	Antiphase Boundaries in the Turbostratically Disordered Misfit Compound (BiSe) <sub>1+n</sub> NbSe <sub>2</sub> . <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 10309-15	5.1	16
143	Ultralow thermal conductivity of turbostratically disordered MoSe ultra-thin films and implications for heterostructures. <i>Nanotechnology</i> , <b>2019</b> , 30, 285401	3.4	16
142	Structure, stability, and properties of the intergrowth compounds ([SnSe] <sub>1+m</sub> )(NbSe <sub>2</sub> ) <sub>n</sub> , where m = n = 1-20. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 4831-9	16.4	15
141	Synthesis of Metastable Inorganic Solids with Extended Structures. <i>ChemPhysChem</i> , <b>2020</b> , 21, 1345-1368	3.2	15
140	Synthesis of [(SnSe) <sub>1.16</sub> ](MoSe <sub>2</sub> ) <sub>1</sub> Ferecrystal Alloys. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 3443-3449	9.6	15
139	Synthesis and Electronic Properties of the Misfit Layer Compound [(PbSe) <sub>1.00</sub> ](MoSe <sub>2</sub> ) <sub>1</sub> . <i>Journal of Electronic Materials</i> , <b>2010</b> , 39, 1476-1481	1.9	15
138	Low-Temperature Preparation of High-Temperature Nickel Germanides Using Multilayer Reactants. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 4200-4204	9.6	15
137	Synthesis of crystalline skutterudite superlattices using the modulated elemental reactant method. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 10335-41	16.4	15
136	Effect of Local Structure of NbSe <sub>2</sub> on the Transport Properties of [(SnSe) <sub>1.16</sub> ](NbSe <sub>2</sub> ) <sub>n</sub> Ferecrystals. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 2158-2164	9.6	14
135	Tuning Electrical Properties through Control of TiSe <sub>2</sub> Thickness in (BiSe) <sub>1+n</sub> (TiSe <sub>2</sub> ) <sub>n</sub> Compounds. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6067-6076	9.6	14
134	Local structure and defect chemistry of [(SnSe) <sub>1.15</sub> ](TaSe <sub>2</sub> ) <sub>n</sub> ferecrystals: A new type of layered intergrowth compound. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 579, 507-515	5.7	14
133	The Use of Ternary Cations to Control Nucleation: Avoiding Binary Compounds as Reaction Intermediates. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 3142-3149	16.4	14
132	Charge Density Wave Transition in (PbSe) <sub>1+n</sub> (VSe <sub>2</sub> ) <sub>n</sub> Compounds with n = 1, 2, and 3. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5646-5653	9.6	13
131	Kinetically Controlled Formation and Decomposition of Metastable [(BiSe) <sub>1</sub> ](TiSe <sub>2</sub> ) <sub>n</sub> Compounds. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 3385-3393	16.4	13
130	Structure of layered WSe <sub>2</sub> thin films with ultralow thermal conductivity. <i>Journal of Materials Research</i> , <b>2008</b> , 23, 1064-1067	2.5	13
129	Transport properties of VSe <sub>2</sub> monolayers separated by bilayers of BiSe. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 886-892	2.5	12
128	Variations in the Conductive and Superconductive Properties of {(TiSe <sub>2</sub> ) <sub>1</sub> [(NbSe <sub>2</sub> ) <sub>m</sub> ] <sub>n</sub> } Superlattices as a Function of Superlattice Structure. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 2894-2901	9.6	12

127	Enhanced Cross-Plane Thermoelectric Transport of Rotationally Disordered SnSe via Se-Vapor Annealing. <i>Nano Letters</i> , <b>2018</b> , 18, 6876-6881	11.5	12
126	Same Precursor, Two Different Products: Comparing the Structural Evolution of In-Ga-O "Gel-Derived" Powders and Solution-Cast Films Using Pair Distribution Function Analysis. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 5607-5613	16.4	11
125	Designed Synthesis and Structure-Property Relationships of Kinetically Stable [(PbSe) <sub>1+y</sub> ][m(VSe <sub>2</sub> ) <sub>1</sub> ] (m = 1, 2, 3, 4) Heterostructures. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 8473-8483	9.6	11
124	Synthesis and Properties of (BiSe) <sub>0.97</sub> MoSe <sub>2</sub> : A Heterostructure Containing Both 2H-MoSe <sub>2</sub> and 1T-MoSe <sub>2</sub> . <i>Chemistry of Materials</i> , <b>2019</b> , 31, 5824-5831	9.6	11
123	Raman spectroscopy insights into the size-induced structural transformation in SnSe nanolayers. <i>Langmuir</i> , <b>2014</b> , 30, 8209-14	4	11
122	Expanding the Concept of van der Waals Heterostructures to Interwoven 3D Structures. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 8292-8298	9.6	11
121	Nucleation and growth kinetics of co-deposited copper and selenium precursors to form metastable copper selenides. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 9631-9637	5.7	11
120	Structural Changes in 2D BiSe Bilayers as n Increases in (BiSe)(NbSe) (n = 1-4) Heterostructures. <i>ACS Nano</i> , <b>2016</b> , 10, 9489-9499	16.7	11
119	Charge transfer vs. dimensionality: what affects the transport properties of ferecrystals?. <i>Nanoscale</i> , <b>2015</b> , 7, 7378-85	7.7	10
118	Structure-property relationships in non-epitaxial chalcogenide heterostructures: the role of interface density on charge exchange. <i>Nanoscale</i> , <b>2016</b> , 8, 14665-72	7.7	10
117	Synthesis, Characterization, and Ultralow Thermal Conductivity of a Lattice-Mismatched SnSe <sub>2</sub> (MoSe <sub>2</sub> ) <sub>1.32</sub> Heterostructure. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 5699-5705	9.6	10
116	Synthesis, structure, and thermal conductivity of [(SnSe) <sub>1+y</sub> ][n[MoSe <sub>2</sub> ] <sub>n</sub> ] compounds. <i>Semiconductor Science and Technology</i> , <b>2014</b> , 29, 124007	1.8	10
115	Synthesis of Designed W <sub>2</sub> Se <sub>2</sub> Heterostructures from Superlattice Reactants. <i>Chemistry of Materials</i> , <b>1996</b> , 8, 1853-1857	9.6	10
114	Superconducting ferecrystals: turbostratically disordered atomic-scale layered (PbSe) <sub>1.14</sub> (NbSe <sub>2</sub> ) <sub>n</sub> thin films. <i>Scientific Reports</i> , <b>2016</b> , 6, 33457	4.9	9
113	Effect of structural incoherence on the low-angle diffraction pattern of synthetic multilayer materials. <i>Journal of Applied Physics</i> , <b>1993</b> , 74, 905-912	2.5	9
112	Nanostructure, thermoelectric properties, and transport theory of V <sub>2</sub> VI <sub>3</sub> and V <sub>2</sub> VI <sub>3</sub> /IVVI based superlattices and nanomaterials. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2016</b> , 213, 662-671	1.6	9
111	Long-Range Order in [(SnSe)][TiSe] Prepared from Designed Precursors. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 3499-3505	5.1	8
110	Modulation Doping in Metastable Heterostructures via Kinetically Controlled Substitution. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 773-779	9.6	8

109	Strong Non-Epitaxial Interactions: Crystallographically Aligned PbSe on VSe <sub>2</sub> . <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2019</b> , 216, 1800896	1.6	8
108	Phase width of kinetically stable ([PbSe] <sub>1+</sub> ) <sub>1</sub> (TiSe <sub>2</sub> ) <sub>1</sub> ferecrystals and the effect of precursor composition on electrical properties. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 645, 118-124	5.7	8
107	Structural Changes as a Function of Thickness in [(SnSe)]TiSe Heterostructures. <i>ACS Nano</i> , <b>2018</b> , 12, 12851-12958	16.7	8
106	Interface-Driven Structural Distortions and Composition Segregation in Two-Dimensional Heterostructures. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 14448-14452	16.4	8
105	Designed Synthesis of van der Waals Heterostructures: The Power of Kinetic Control. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 15688-15692	3.6	8
104	Size-Dependent Structural Distortions in One-Dimensional Nanostructures. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 2036-2039	3.6	8
103	Low-Temperature Synthesis of TiC, Mo <sub>2</sub> C, and W <sub>2</sub> C from Modulated Elemental Reactants. <i>Chemistry of Materials</i> , <b>2001</b> , 13, 3876-3881	9.6	8
102	Cryogenic Laser Ablation Reveals Short-Circuit Mechanism in Lithium Metal Batteries. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 2138-2144	20.1	8
101	Manufacturing of Smart Goods: Current State, Future Potential, and Research Recommendations. <i>Journal of Micro and Nano-Manufacturing</i> , <b>2016</b> , 4,	1.3	8
100	Self-assembly of designed precursors: A route to crystallographically aligned new materials with controlled nanoarchitecture. <i>Journal of Solid State Chemistry</i> , <b>2016</b> , 236, 173-185	3.3	7
99	Preparation, formation, and structure of [(SnSe) <sub>1.04</sub> ] <sub>m</sub> (MoSe <sub>2</sub> ) <sub>n</sub> intergrowth compounds (0 Inorganic Chemistry, <b>2015</b> , 54, 1091-9	5.1	7
98	Telluride Misfit Layer Compounds: [(PbTe) <sub>1.17</sub> ] <sub>m</sub> (TiTe <sub>2</sub> ) <sub>n</sub> . <i>Angewandte Chemie</i> , <b>2014</b> , 126, 5778-5781	3.6	7
97	Synthesis of [(VSe <sub>2</sub> ) <sub>n</sub> ] <sub>1.06</sub> [(TaSe <sub>2</sub> ) <sub>n</sub> ] Superlattices Using a Hybrid Approach: Self-Assembly of Amorphous Nanostructured Reactants. <i>Advanced Materials</i> , <b>2006</b> , 18, 118-122	24	7
96	Nonuniform Composition Profiles in Amorphous Multimetal Oxide Thin Films Deposited from Aqueous Solution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 37476-37483	9.5	6
95	The Influence of Interfaces on Properties of Thin-Film Inorganic Structural Isomers Containing SnSe-NbSe <sub>2</sub> Subunits. <i>ACS Nano</i> , <b>2015</b> , 9, 4427-34	16.7	6
94	Influence of interstitial V on structure and properties of ferecrystalline [(SnSe) <sub>1.15</sub> ] <sub>1</sub> (V <sub>1</sub> +Se <sub>2</sub> ) <sub>n</sub> for n=1, 2, 3, 4, 5, and 6. <i>Journal of Solid State Chemistry</i> , <b>2015</b> , 231, 101-107	3.3	6
93	Insights into the Charge-Transfer Stabilization of Heterostructure Components with Unstable Bulk Analogs. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 4738-4747	9.6	6
92	Mentoring Graduate Students in Research and Teaching by Utilizing Research as a Template. <i>Journal of Chemical Education</i> , <b>2014</b> , 91, 200-205	2.4	6



91	Density functional theory calculations of the turbostratically disordered compound [(SnSe) <sub>1+y</sub> ] <sub>m</sub> (VSe <sub>2</sub> ) <sub>n</sub> . <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	6
90	X-Ray Characterization of Low-Thermal-Conductivity Thin-Film Materials. <i>Journal of Electronic Materials</i> , <b>2009</b> , 38, 1402-1406	1.9	6
89	Suppression of binary nucleation in amorphous La-Fe-Sb mixtures. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 3589-92	16.4	6
88	Magnetism and transport in transparent high-mobility BaSnO <sub>3</sub> films doped with La, Pr, Nd, and Gd. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	6
87	Application of HAADF STEM image analysis to structure determination in rotationally disordered and amorphous multilayered films. <i>Semiconductor Science and Technology</i> , <b>2016</b> , 31, 084003	1.8	6
86	Detection of nanoscale embedded layers using laboratory specular X-ray diffraction. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 185306	2.5	5
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81	Length-scale dependent variation of the first nucleated phase in nickel-silicon multilayers. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 1252-1257	2.5	5
80	Kontrollierte Synthese von [TiSe <sub>2</sub> ] <sub>m</sub> [NbSe <sub>2</sub> ] <sub>n</sub> -Berstrukturen aus modulierten Reaktanten. <i>Angewandte Chemie</i> , <b>1996</b> , 108, 2805-2809	3.6	5
79	The Evolution of Titanium-Silicon Interfaces as Monitored by X-Ray Diffraction. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 238, 581		5
78	Suppression of a Charge Density Wave in ([SnSe] <sub>1.15</sub> ) <sub>1</sub> (VSe <sub>2</sub> ) <sub>1</sub> Ferecrystals Via Isoelectronic Doping with Ta. <i>Journal of Electronic Materials</i> , <b>2016</b> , 45, 4898-4902	1.9	5
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75	Influence of Nanoarchitecture on Charge Donation and the Electrical-Transport Properties in [(SnSe) <sub>1+q</sub> ][TiSe <sub>2</sub> ] <sub>p</sub> Heterostructures. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 5802-5813	9.6	4
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70	Steuerung gr $\ddot{u}$ nduzierter Phasenumwandlungen durch chemisch konzipierte Nanolamine. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 13452-13456	3.6	4
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