

# Susan E Latturner

## List of Publications by Year in descending order

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| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Metal Flux Growth of Praseodymium Iron Carbides Featuring FeC <sub>3</sub> Units. <i>Crystal Growth and Design</i> , 2021, 21, 103-111.  | 3.0  | 3         |
| 2  | Unexpected Hydride: Ce <sub>4</sub> B <sub>2</sub> C <sub>2</sub> H <sub>2</sub> .42, a Stuffed Variant of the Nd <sub>2</sub> BC Structure Type. <i>Crystal Growth and Design</i> , 2021, 21, 5164-5171.  | 3.0  | 3         |
| 3  | An <sub>1.33</sub> T <sub>4</sub> Al <sub>8</sub> Si <sub>2</sub> (An = Ce, Th, U, Np; T = Ni, Co): Actinide Intermetallics with Disordered Gd <sub>1+x</sub> Fe <sub>4</sub> Si <sub>10</sub> Structure Type Grown from Metal Flux. <i>Inorganic Chemistry</i> , 2021, 60, 13062-13070.                   | 4.0  | 1         |
| 4  | Flux Synthesis of a Metal Carbide Hydride Using Anthracene As a Reactant. <i>Inorganic Chemistry</i> , 2020, 59, 11651-11657.  | 4.0  | 6         |
| 5  | Magnesium-Based Flux Growth and Structural Relationships of a Large Family of Tetrelide Semimetals. <i>Crystal Growth and Design</i> , 2020, 20, 2632-2643.  | 3.0  | 0         |
| 6  | Flux Synthesis of MgNi <sub>2</sub> Bi <sub>4</sub> and Its Structural Relationship to NiBi <sub>3</sub> . <i>Inorganic Chemistry</i> , 2020, 59, 3452-3458.   | 4.0  | 2         |
| 7  | Structural Disorder in Intermetallic Boride Pr <sub>21</sub> M <sub>16</sub> Te <sub>6</sub> B <sub>30</sub> (M = Mn, Fe): A Transition Metal Cluster and Its Evil Twin. <i>Inorganic Chemistry</i> , 2020, 59, 2484-2494.   | 4.0  | 2         |
| 8  | U <sub>1.33</sub> T <sub>4</sub> Al <sub>8</sub> Si <sub>2</sub> (T = Ni, Co): Complex Uranium Silicides Grown from Aluminum/Gallium Flux Mixtures. <i>Inorganic Chemistry</i> , 2019, 58, 12209-12217.  | 4.0  | 7         |
| 9  | In Situ Neutron Diffraction Studies of the Metal Flux Growth of Ba/Yb/Mg/Si Intermetallics. <i>Inorganic Chemistry</i> , 2019, 58, 8111-8119.  | 4.0  | 11        |
| 10 | Yb <sub>51</sub> In <sub>13</sub> H <sub>27</sub> : A complex metal hydride grown from Yb/Li flux. <i>Journal of Solid State Chemistry</i> , 2019, 270, 187-191.   | 2.9  | 1         |
| 11 | Emerging Investigators in Solid-State Inorganic Chemistry. <i>Inorganic Chemistry</i> , 2019, 58, 4-7.   | 4.0  | 2         |
| 12 | Pr <sub>62</sub> Fe <sub>21</sub> M <sub>16</sub> C <sub>32</sub> Versus Pr <sub>21</sub> Fe <sub>8</sub> M <sub>7</sub> C <sup>2+</sup> <sub>12</sub> (M = Si, P; M <sup>2+</sup> = Si, Ge, Sn) Competing Intermetallic Carbides Grown from a Pr/Ni Flux. <i>Inorganic Chemistry</i> , 2019, 58, 540-548. | 4.0  | 3         |
| 13 | Clusters, Assemble: Growth of Intermetallic Compounds from Metal Flux Reactions. <i>Accounts of Chemical Research</i> , 2018, 51, 40-48.   | 15.6 | 36        |
| 14 | Metal Flux Growth of Complex Alkaline Earth/Rare Earth Metal Silicides with a Homologous Series of Metal Phosphide Structure Types. <i>Chemistry of Materials</i> , 2018, 30, 6478-6485.   | 6.7  | 3         |
| 15 | U <sub>8</sub> Al <sub>19</sub> Si <sub>6</sub> , A Uranium Aluminide Silicide with a Stuffed Supercell Grown from Aluminum Flux. <i>Chemistry of Materials</i> , 2018, 30, 3806-3812.   | 6.7  | 2         |
| 16 | Bi <sub>13</sub> S <sub>18</sub> I <sub>2</sub> : (Re)discovery of a Subvalent Bismuth Compound Featuring [Bi <sub>2</sub> ] <sup>4+</sup> Dimers Grown in Sulfur/Iodine Flux Mixtures. <i>Chemistry of Materials</i> , 2017, 29, 3314-3323.   | 6.7  | 39        |
| 17 | New cerium cobalt borocarbide synthesized from eutectic metal flux mixture. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 450-455.   | 6.0  | 4         |
| 18 | Structural and Optical Properties of Sb-Substituted BiSI Grown from Sulfur/Iodine Flux. <i>Inorganic Chemistry</i> , 2017, 56, 12362-12368.  | 4.0  | 23        |

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|----|--|------|-----------|
| 19 | Low-Dimensional Nitridosilicates Grown from Ca/Li Flux: Void Metal $\text{Ca}_8\text{In}_2\text{Si}_4\text{N}_4$ and Semiconductor $\text{Ca}_3\text{Si}_3\text{N}_4$ . <i>Inorganic Chemistry</i> , 2017, 56, 9361-9368.                                | 4.0  | 7         |
| 20 | Switching on a Spin Glass: Flux Growth, Structure, and Magnetism of $\text{La}_{1-x}\text{Mn}_{1-x}\text{Ni}_x\text{Al}_y\text{Sn}_4$ Intermetallics. <i>Inorganic Chemistry</i> , 2017, 56, 15194-15202.  | 4.0  | 7         |
| 21 | Mercouri G. Kanatzidis: Excellence and Innovations in Inorganic and Solid-State Chemistry. <i>Inorganic Chemistry</i> , 2017, 56, 7582-7597.   | 4.0  | 7         |
| 22 | Metal Nitrides Grown from Ca/Li Flux: $\text{Ca}_6\text{Te}_3\text{N}_2$ and New Nitridoferrate(I) $\text{Ca}_6(\text{Li}_x\text{Fe}_{1-x})\text{Te}_2\text{N}_3$ . <i>Journal of the American Chemical Society</i> , 2016, 138, 10636-10644.            | 13.7 | 10        |
| 23 | Flux growth and magnetic properties of rare earth cobalt germanide, $\text{RE}_6\text{Co}_5\text{Ge}_{1+x}\text{Al}_3$ (RE=Pr, Nd). <i>J. Appl. Phys.</i> 107, 084314 (2010). <a href="#">DOI: 10.1063/1.3184314</a>                                     | 2.9  | 16        |
| 24 | $\text{Nd}_8\text{Co}_4\text{Al}_2\text{Ge}_2\text{C}_3$ : A case study in flux growth of lanthanide-rich intermetallics. <i>Journal of Solid State Chemistry</i> , 2016, 236, 159-165.  | 2.9  | 8         |
| 25 | $\text{Ca}_{12}\text{InC}_{13}$ and $\text{Ba}_{12}\text{InC}_{18}\text{H}_4$ : Alkaline-Earth Indium Allenylides Synthesized in AE/Li Flux (AE = Ca, Ba). <i>Inorganic Chemistry</i> , 2015, 54, 914-921.   | 4.0  | 10        |
| 26 | Thermoelectric Properties of $\text{Ba}_{1.9}\text{Ca}_{2.4}\text{Mg}_{9.7}\text{Si}_7$ : A New Silicide Zintl Phase with the $\text{Zr}_2\text{Fe}_{12}\text{P}_7$ Structure Type. <i>Chemistry of Materials</i> , 2015, 27, 6708-6716.                 | 6.7  | 14        |
| 27 | Synthesis, Crystal Structure, and Magnetic Properties of Novel Intermetallic Compounds $\text{R}_2\text{Co}_2\text{SiC}$ (R = Pr, Nd). <i>Inorganic Chemistry</i> , 2014, 53, 6141-6148.   | 4.0  | 9         |
| 28 | $\text{LiCa}_3\text{As}_2\text{H}$ and $\text{Ca}_{14}\text{As}_6\text{X}_7$ (X = C, H, N): Two New Arsenide Hydride Phases Grown from Ca/Li Metal Flux. <i>Inorganic Chemistry</i> , 2014, 53, 10620-10626.   | 4.0  | 9         |
| 29 | $\text{Ca}_{54}\text{In}_{13}\text{B}_4\text{H}_{23+x}$ : A Complex Metal Subhydride Featuring Ionic and Metallic Regions. <i>Chemistry of Materials</i> , 2014, 26, 3202-3208.  | 6.7  | 10        |
| 30 | Reaction of Methane with Bulk Intermetallics Containing Iron Clusters Yields Carbon Nanotubes. <i>Chemistry of Materials</i> , 2013, 25, 1480-1482.  | 6.7  | 4         |
| 31 | Competing Phases, Complex Structure, and Complementary Diffraction Studies of $\text{R}_3\text{FeAl}_4\text{Mg}_x\text{Tt}_2$ Intermetallics (R = Y, Dy, Er, Yb; Tt = Si or Ge; $x < 0.5$ ). <i>Chemistry of Materials</i> , 2013, 25, 3363-3372.        | 6.7  | 9         |
| 32 | Flux Growth and Magnetoresistance Behavior of Rare Earth Zintl Phase $\text{EuMgSn}$ . <i>Inorganic Chemistry</i> , 2013, 52, 3342-3348.   | 4.0  | 17        |
| 33 | A Tale of Two Metals: New Cerium Iron Borocarbide Intermetallics Grown from Rare-Earth/Transition Metal Eutectic Fluxes. <i>Journal of the American Chemical Society</i> , 2012, 134, 12138-12148.   | 13.7 | 20        |
| 34 | Synthesis and Properties of New Multinary Silicides $\text{R}_5\text{Mg}_5\text{Fe}_4\text{Al}_x\text{Si}_{18-x}$ (R = Gd, Dy, Y, $x \in \{12\}$ ) Grown in Mg/Al Flux. <i>Inorganic Chemistry</i> , 2012, 51, 6089-6095.                                | 4.0  | 15        |
| 35 | $\text{Ca}_{11}\text{E}_3\text{C}_8$ (E = Sn, Pb): New Complex Carbide Zintl Phases Grown from Ca/Li Flux. <i>Inorganic Chemistry</i> , 2012, 51, 13345-13350.   | 4.0  | 9         |
| 36 | Salt-flux synthesis of complex oxides: $\text{Cs}_0.33\text{MoO}_3$ , $\text{CsFe}(\text{MoO}_4)_2$ , and the inverse salt-inclusion phase $\text{Cs}_2\text{Mo}_0.65\text{O}_0.21\text{Cl}_5.44$ . <i>Philosophical Magazine</i> , 2012, 92, 2582-2595. | 1.6  | 9         |

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|----|---|------|-----------|
| 37 | Influence of the La/M Network on Magnetic Properties of $Mn_4$ Tetrahedra in Intermetallic Compounds $La_{21}Mn_8M_7C_{12}$ (M = Ge, Sn, Sb, Te, Bi). <i>Chemistry of Materials</i> , 2011, 23, 1768-1778.          | 6.7  | 16        |
| 38 | Two Germanide Hydride Phases Grown in Calcium-Rich Flux: Use of Interstitial Elements for Discovery of New Phases. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 4006-4011.                          | 2.0  | 12        |
| 39 | Flux growth of a new cobalt-zinc-tin ternary phase $Co_{7+x}Zn_{3-x}Sn_8$ and its relationship to $CoSn$ . <i>Journal of Solid State Chemistry</i> , 2011, 184, 1875-1881.  | 2.9  | 8         |
| 40 | Structural relationships between new carbide $La_{14}Sn(MnC_6)_3$ and fully ordered $La_{11}(MnC_6)_3$ . <i>Journal of Solid State Chemistry</i> , 2010, 183, 2987-2994.  | 2.9  | 13        |
| 41 | $Ca_2LiC_3H$ : A New Complex Carbide Hydride Phase Grown in Metal Flux. <i>Journal of the American Chemical Society</i> , 2010, 132, 17523-17530.   | 13.7 | 25        |
| 42 | Molten Salt Synthesis and Structural Characterization of Novel Salt-Inclusion Vanadium Bronze $Cs_5FeV_5O_{13}Cl_6$ . <i>Inorganic Chemistry</i> , 2010, 49, 4486-4490.   | 4.0  | 18        |
| 43 | Metal to Semimetal Transition in $CaMgSi$ Crystals Grown from $Mg-Al$ Flux. <i>Chemistry of Materials</i> , 2010, 22, 1846-1853.  | 6.7  | 32        |
| 44 | Transition-Metal Ion Exchange Using Poly(ethylene glycol) Oligomers as Solvents. <i>Chemistry of Materials</i> , 2010, 22, 330-337.   | 6.7  | 13        |
| 45 | Ruthenium Intermetallics Grown from $La-Ni$ Flux: Synthesis, Structure, and Physical Properties. <i>Inorganic Chemistry</i> , 2010, 49, 2773-2781.  | 4.0  | 39        |
| 46 | Europium substitution into intermetallic phases grown in $Ca/Zn$ flux. <i>Journal of Solid State Chemistry</i> , 2009, 182, 2239-2245.  | 2.9  | 8         |
| 47 | Crystal growth and magnetic behavior of $R_6T_{13}Al_xM_y$ phases (R=La, Nd; T=Mn, Fe; M=main group) grown from lanthanide-rich eutectic fluxes. <i>Journal of Solid State Chemistry</i> , 2009, 182, 3055-3062.    | 2.9  | 21        |
| 48 | $R_3Au_6Al_{26}T$ (R = Ca, Sr, Eu, Yb; T = Early Transition) Ternary Intermetallics Grown from Aluminum Flux. <i>Inorganic Chemistry</i> , 2009, 48, 1346-1355.   | 4.0  | 10        |
| 49 | Spin Glass Behavior of Isolated, Geometrically Frustrated Tetrahedra of Iron Atoms in the Intermetallic $La_{21}Fe_8Sn_7C_{12}$ . <i>Journal of the American Chemical Society</i> , 2009, 131, 3349-3354.           | 13.7 | 47        |
| 50 | $RE(AuAl_2)_nAl_2(AuSi_{1-x})_2$ : A New Homologous Series of Quaternary Intermetallics Grown from Aluminum Flux. <i>Inorganic Chemistry</i> , 2008, 47, 2089-2097.   | 4.0  | 25        |
| 51 | Flux Growth and Electronic Properties of $Ba_2In_5Pn_5$ ( $Pn = P, As$ ): Zintl Phases Exhibiting Metallic Behavior. <i>Chemistry of Materials</i> , 2008, 20, 5675-5681.   | 6.7  | 27        |
| 52 | Sodalite ion exchange in polyethylene oxide oligomer solvents. <i>Journal of Materials Chemistry</i> , 2007, 17, 4530.  | 6.7  | 8         |
| 53 | Growth of new ternary intermetallic phases from $Ca/Zn$ eutectic flux. <i>Journal of Solid State Chemistry</i> , 2007, 180, 907-914.  | 2.9  | 26        |
| 54 | Formation of Multinary Intermetallics from Reduction of Perovskites by Aluminum Flux: $M_3Au_6+xAl_{26}Ti$ (M = Ca, Sr, Yb), a Stuffed Variant of the $BaHg_{11}$ Type. <i>Inorganic Chemistry</i> , 2004, 43, 2-4. | 4.0  | 20        |

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|----|---|-----|-----------|
| 55 | RE <sub>2</sub> MAI <sub>6</sub> Si <sub>4</sub> (RE = Gd, Tb, Dy; M = Au, Pt): Layered Quaternary Intermetallics Featuring CaAl <sub>2</sub> Si <sub>2</sub> -Type and YNiAl <sub>4</sub> Ge <sub>2</sub> -Type Slabs Grown from Aluminum Flux. <i>Inorganic Chemistry</i> , 2003, 42, 7959-7966.  | 4.0 | 15        |
| 56 | REAu <sub>4</sub> Al <sub>8</sub> Si: the end member of a new homologous series of intermetallics featuring thick AuAl <sub>2</sub> layers. Electronic Supplementary Information (ESI) available: crystallographic data for all analogues (tables of atomic positions, thermal parameters, bond lengths) in the form of cif files. See <a href="http://www.rsc.org/suppdata/cc/b3/b306641j/">http://www.rsc.org/suppdata/cc/b3/b306641j/</a> . <i>Chemical Communications</i> , 2003, , 2340. | 4.1 | 13        |
| 57 | REAu <sub>4</sub> Al <sub>8</sub> Si: the end member of a new homologous series of intermetallics featuring thick AuAl <sub>2</sub> layers. <i>Chemical Communications</i> , 2003, , 2340-1.  | 4.1 | 0         |