

# Benjamin F Schultz

## List of Publications by Citations

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27  
papers

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27  
ext. papers

1,357  
ext. citations

4  
avg, IF

4.34  
L-index

#	Paper	IF	Citations
27	Functional Metal Matrix Composites: Self-lubricating, Self-healing, and Nanocomposites-An Outlook. <i>Jom</i> , <b>2014</b> , 66, 872-881	2.1	140
26	Microstructure and hardness of Al <sub>2</sub> O <sub>3</sub> nanoparticle reinforced Al/Mg composites fabricated by reactive wetting and stir mixing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 530, 87-97	5.3	134
25	Prediction models for the yield strength of particle-reinforced unimodal pure magnesium (Mg) metal matrix nanocomposites (MMNCs). <i>Journal of Materials Science</i> , <b>2013</b> , 48, 4191-4204	4.3	131
24	Microstructure and mechanical behavior of die casting AZ91D-Fly ash cenosphere composites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2009</b> , 40, 883-896	8.4	131
23	The synthesis, compressive properties, and applications of metal matrix syntactic foams. <i>Jom</i> , <b>2011</b> , 63, 36-42	2.1	88
22	Tribological performance of A206 aluminum alloy containing silica sand particles. <i>Tribology International</i> , <b>2010</b> , 43, 455-466	4.9	68
21	Al <sub>2</sub> O <sub>3</sub> syntactic foams [Part I: Effect of matrix strength and hollow sphere size on the quasi-static properties of Al-A206/Al <sub>2</sub> O <sub>3</sub> syntactic foams. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 582, 415-422	5.3	60
20	Self-Healing Metals and Metal Matrix Composites. <i>Jom</i> , <b>2014</b> , 66, 866-871	2.1	59
19	Effect of hollow sphere size and size distribution on the quasi-static and high strain rate compressive properties of Al-A380/Al <sub>2</sub> O <sub>3</sub> syntactic foams. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 1267-1278	4.3	57
18	Al <sub>2</sub> O <sub>3</sub> syntactic foams [Part II: Predicting mechanical properties of metal matrix syntactic foams reinforced with ceramic spheres. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 582, 423-432	5.3	54
17	Strengthening mechanisms of graphene- and Al <sub>2</sub> O <sub>3</sub> -reinforced aluminum nanocomposites synthesized by room temperature milling. <i>Materials and Design</i> , <b>2016</b> , 92, 79-87	8.1	47
16	Compressive properties of Al-A206/SiC and Mg-AZ91/SiC syntactic foams. <i>Journal of Materials Research</i> , <b>2013</b> , 28, 2426-2435	2.5	29
15	Reactive stir mixing of Al/Mg/Al <sub>2</sub> O <sub>3</sub> np metal matrix nanocomposites: effects of Mg and reinforcement concentration and method of reinforcement incorporation. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 2106-2116	4.3	27
14	On the superposition of strengthening mechanisms in dispersion strengthened alloys and metal-matrix nanocomposites: Considerations of stress and energy. <i>Metals and Materials International</i> , <b>2014</b> , 20, 375-388	2.4	27
13	Semi-empirical model of deposit size and porosity in 420 stainless steel and 4140 steel using laser engineered net shaping. <i>Journal of Manufacturing Processes</i> , <b>2015</b> , 19, 163-170	5	21
12	Synthesis of A356 Al/High-Ca fly ash composites by pressure infiltration technique and their characterization. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 4042-4052	4.3	20
11	Revised Orowan Strengthening: Effective Interparticle Spacing and Strain Field Considerations. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2012</b> , 43, 2110-2115	2.3	20

10	Synthesis and Quasi-Static Compressive Properties of Mg-AZ91D-Al <sub>2</sub> O <sub>3</sub> Syntactic Foams. <i>Materials</i> , <b>2015</b> , 8, 6085-6095	3.5	17
9	Brownian Motion Effects on Particle Pushing and Engulfment During Solidification in Metal-Matrix Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 4635-4645	2.3	16
8	Tensile properties of reactive stir-mixed and squeeze cast Al/CuOnp-based metal matrix nanocomposites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 611, 326-332	5.3	15
7	Impact of Brownian motion on the particle settling in molten metals. <i>Metals and Materials International</i> , <b>2014</b> , 20, 747-755	2.4	9
6	Metal Matrix Composites for Automotive Applications <b>2013</b> , 311-344		9
5	Synthesis and Properties of Metal Matrix Nanocomposites (MMNCS), Syntactic Foams, Self Lubricating and Self-Healing Metals <b>2013</b> , 1515-1524		6
4	Self-Healing in an Aluminum Alloy Reinforces With Microtubes <b>2008</b> ,		4
3	Synthesis and Properties of Metal Matrix Nanocomposites (MMNCS), Syntactic Foams, Self Lubricating and Self-Healing Metals <b>2013</b> , 1515-1524		4
2	Direct Synthesis of Nanostructured in Situ Hybrid Aluminum Matrix Nanocomposite. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 6345-6353	3.9	3
1	The Effect of Solidification Rate on the Microstructure and Mechanical Properties of Pure Magnesium. <i>Metals</i> , <b>2021</b> , 11, 1264	2.3	0