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## Microstructural and mechanical characteristics of in situ metal matrix composites

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1005	Fabrication of high strength Cu/NbC composite conductor by high pressure torsion. <b>2011</b> , 528, 1750-1756	23
1004	High volume fraction TiC <sub>x</sub> /Al composites with good comprehensive performance fabricated by combustion synthesis and hot press consolidation. <b>2011</b> , 528, 1931-1936	16
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935	Temperature dependence of tensile properties and fracture behavior of as rolled TiB/Ti composite sheet. <b>2012</b> , 556, 962-969	29
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881	High-resolution TEM characterization of SiC nanowires as reinforcements in a nanocrystalline Mg-matrix. <b>2013</b> , 77, 81-88		32
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836	Fabrication of Biomedical Implants using Laser Engineered Net Shaping (LENS) <b>2013</b> , 72, 169-174	38
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834	Effect of aluminium addition on densification behaviour and microstructural features of P/M processed Cu/TiC composites. <b>2013</b> , 104, 666-674	7
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818	Effect of Ultrasound on Microstructure and Tensile Properties of In Situ TiB <sub>2</sub> p/7055 Composite Synthesized by Melt Direct Reaction. <b>2014</b> , 1053, 129-135	1
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590	In-situ formation of novel TiC-particle-reinforced 316L stainless steel bulk-form composites by selective laser melting. <b>2017</b> , 706, 409-418	137
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577	Stress-rupture measurements of cast magnesium strengthened by in-situ production of ceramic particles. <b>2017</b> , 5, 225-230	10
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568	Nanoscale size effect in in situ titanium based composites with cell viability and cytocompatibility studies. <b>2017</b> , 73, 525-536	17

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550	Tailoring in-situ TiB <sub>2</sub> particulates in aluminum matrix composites. <b>2017</b> , 705, 55-61	36

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520	Deformation mechanisms and texture evolution of in-situ magnesium matrix composites containing polymer derived SiCNO dispersoids during hot compression. <b>2018</b> , 720, 49-59	6
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514	Microstructural characterization and mechanical properties of a novel TiC-based cermet bonded with Ni <sub>3</sub> (Al,Ti) and NiAl duplexalloy. <b>2018</b> , 135, 295-302	18



513	HIGH TEMPERATURE TRIBOLOGICAL BEHAVIOR OF STIR-CAST Al/TiB <sub>2</sub> METAL MATRIX COMPOSITES. <b>2018</b> , 25, 1850122	7
512	Microstructure and mechanical characterization of in situ synthesized AA6061/(TiB <sub>2</sub> +Al <sub>2</sub> O <sub>3</sub> ) hybrid aluminum matrix composites. <b>2018</b> , 740, 529-535	57
511	Dramatically enhanced impact toughness of two-scale laminate-network structured composites. <b>2018</b> , 140, 163-171	26
510	Cycle oxidation behavior and anti-oxidation mechanism of hot-dipped aluminum coating on TiBw/Ti6Al4V composites with network microstructure. <b>2018</b> , 8, 5790	16
509	Shear-induced brittle failure of titanium carbide from quantum mechanics simulations. <b>2018</b> , 101, 4184-4192	7
508	Understanding the evolution of microstructural features in the in-situ intermetallic phase reinforced Al/Al <sub>3</sub> Ti nanocomposite. <b>2018</b> , 5, 10118-10130	7
507	Influence of SiO <sub>2</sub> nanoparticles on the microstructure and mechanical properties of Al matrix nanocomposites fabricated by spark plasma sintering. <b>2018</b> , 146, 60-68	34
506	Al-Ti-C master alloy with nano-sized TiC particles dispersed in the matrix prepared by using carbon nanotubes as C source. <b>2018</b> , 748, 774-782	23
505	Tempering Behavior of TiC-Reinforced SKD11 Steel Matrix Composite. <b>2018</b> , 24, 644-651	5
504	In-situ TiC and $\gamma$ -Ni <sub>3</sub> (Al,Ti) triggered microstructural modification and strengthening of Ni matrix composite by reactive hot-press sintering pure Ni and Ti <sub>2</sub> AlC precursor. <b>2018</b> , 747, 1043-1052	20
503	In situ synthesised WC reinforced nickel coating by laser cladding. <b>2018</b> , 34, 276-282	17
502	4.2 Effect of Interface Strength on Metal Matrix Composites Properties. <b>2018</b> , 22-59	3
501	Synthesis, microstructure, and mechanical properties of in situ TiB <sub>2</sub> /Al-4.5Cu composites. <b>2018</b> , 25, 453-462	6
500	Issues and strategies in composite fabrication via friction stir processing: A review. <b>2018</b> , 33, 239-261	70
499	Synthesis of the in situ aluminum matrix composite through pyrolysis of high temperature vulcanization silicone. <b>2018</b> , 52, 123-134	5
498	Liquid metallurgy processing of intermetallic matrix composites. <b>2018</b> , 167-202	4
497	Powder metallurgy of Al-based matrix composites reinforced with quasicrystalline particles. <b>2018</b> , 147-163	
496	Enhanced mechanical properties of in situ aluminium matrix composites reinforced by alumina nanoparticles. <b>2018</b> , 18, 215-226	43



495	Effects of reinforcement content and sequential milling on the microstructural and mechanical properties of TiB <sub>2</sub> particulate-reinforced eutectic Al-12.6 wt% Si composites. <b>2018</b> , 53, 2537-2552	12
494	Comparison study of Fe-based matrix composites reinforced with Ti-coated and Mo-coated SiC particles. <b>2018</b> , 204, 154-162	8
493	Microstructural behaviour of spark plasma sintered composites containing bimodal micro- and nano-sized Al <sub>2</sub> O <sub>3</sub> particles. <b>2018</b> , 61, 50-63	18
492	Wear Properties of A356/Al <sub>2</sub> O <sub>3</sub> Metal Matrix Composites Produced by Insitu Squeeze Casting Techniques. <b>2018</b> , 213-217	1
491	Laser engineered net shaping of quasi-continuous network microstructural TiB reinforced titanium matrix bulk composites: Microstructure and wear performance. <b>2018</b> , 99, 174-183	46
490	A Review of Recent Progress in Solid State Fabrication of Composites and Functionally Graded Systems Via Friction Stir Processing. <b>2018</b> , 43, 334-366	72
489	In situ preparation of TiB nanowires for high-performance Ti metal matrix nanocomposites. <b>2018</b> , 735, 2640-2645	31
488	Effect of Pr inoculation and crystal size on the Hall-Petch relationship for Al-30 wt%Mg <sub>2</sub> Si composites. <b>2018</b> , 214, 6-9	14
487	Verification of correlation between densification during spark plasma sintering and compressive creep of ultrafine-grained in-situ Al <sub>2</sub> O <sub>3</sub> -reinforced B <sub>2</sub> aluminide matrix composites. <b>2018</b> , 735, 1921-1930	6
486	In situ synthesis of a gamma-Al <sub>2</sub> O <sub>3</sub> whisker reinforced aluminium matrix composite by cold pressing and sintering. <b>2018</b> , 709, 223-231	33
485	Investigations on Mechanical and Metallurgical Properties of Friction Welding of AlB <sub>2</sub> Reinforced Aluminum Matrix Composites. <b>2018</b> , 10, 1385-1391	6
484	Phase evolution, mechanical and corrosion behavior of Fe (100-x) Ni (x) alloys synthesized by powder metallurgy. <b>2018</b> , 114, 8-20	28
483	Microstructure, mechanical properties and strengthening mechanisms of Mg matrix composites reinforced with in situ nanosized TiB <sub>2</sub> particles. <b>2018</b> , 710, 251-259	58
482	Metal Matrix Composites. <b>2018</b> , 305-487	2
481	Effects of reheating duration on the microstructure and tensile properties of in situ core-shell-structured particle-reinforced A356 composites fabricated via powder thixoforming. <b>2018</b> , 53, 2576-2593	19
480	Evaluating extrudability of particle-reinforced 2124-Al MMCs and MMNCs within the warm working temperature range (170-280°C). <b>2018</b> , 430, 012003	
479	Investigation on Cutting Force, Flank Wear, and Surface Roughness in Machining of the A356-TiB <sub>2</sub> /TiC in-situ Composites. <b>2018</b> , 5, 45-77	1
478	Wear behavior of B <sub>4</sub> C reinforced AZ91 matrix composite fabricated by FSP. <b>2018</b> , 5, 19976-19984	11

477	Impression creep behaviour of in-situ Al <sub>3</sub> Ti reinforced Al alloy composite fabricated by salt-melt reaction technique. <b>2018</b> , 5, 16936-16945	6
476	Effect of Fe-impurity on tribological properties of Al-15Mg 2 Si composite. <b>2018</b> , 28, 1084-1093	7
475	Microstructure and Formation Mechanism of in-Situ TiN-TiB <sub>2</sub> /Ni Coating by Argon Arc Cladding. <b>2018</b> , 47, 13-19	5
474	Microstructure evolution and properties of in situ synthesized TiB <sub>2</sub> -reinforced aluminum alloy by laser surface alloying. <b>2018</b> , 33, 4307-4316	2
473	Effect of pin volume ratio on wear behaviour of friction stir processed LM25AA-5%SiCp metal matrix composites. <b>2018</b> , 57, 2939-2950	3
472	Microstructure and Mechanical Behavior of Al-Mg Composites Synthesized by Reactive Sintering. <b>2018</b> , 8, 762	9
471	Multiscale Hierarchical Structure and Laminated Strengthening and Toughening Mechanisms. <b>2018</b> ,	3
470	Investigation into the Possibility of Fabricating Boraluminum Rolling of Increased Strength without Homogenization and Quenching. <b>2018</b> , 59, 412-418	
469	Microstructural evolution and mechanical behavior of in situ synthesized MgAl <sub>2</sub> O <sub>4</sub> whiskers reinforced 6061 Al alloy composite after hot extrusion and annealing. <b>2018</b> , 1	0
468	Core-Shell-Structured Particle Reinforced A356 Matrix Composite Prepared by Powder-Thixoforming: Effect of Reheating Temperature. <b>2018</b> , 11,	6
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466	Microstructure and mechanical properties of Ti matrix composite reinforced with 5 vol.% TiC after various thermo-mechanical treatments. <b>2018</b> , 758, 78-84	19
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463	Response of Al-Based Micro- and Nanocomposites to Rapid Fluctuations in Thermal Environments. <b>2018</b> , 27, 3678-3687	
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459	Microstructures and mechanical properties of in situ TiC-Ti-Nb composites with ultrafine grains fabricated by high-pressure sintering. <b>2018</b> , 8, 9496	7
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457	Synthesis, structural characterization, mechanical and wear behaviour of Cu-TiO <sub>2</sub> -Gr hybrid composite through stir casting technique. <b>2018</b> , 768, 733-741	33
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341	Effect of tool nose radius and tool wear on residual stresses distribution while turning in situ TiB <sub>2</sub> /7050 Al metal matrix composites. <b>2019</b> , 100, 143-151	23
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