Temel Varol

List of Publications by Year
in descending order

63 papers	2,408 citations	136950 32 h-index	214800 47 g-index
64 all docs	64 docs citations	64 times ranked	1579 citing authors

#	Article	IF	Citations
1	Microstructure and properties of AA7075/Al–SiC composites fabricated using powder metallurgy and hot pressing. Powder Technology, 2014, 268, 72-79.	4.2	135
2	Artificial neural network modeling to effect of reinforcement properties on the physical and mechanical properties of Al2024–B4C composites produced by powder metallurgy. Composites Part B: Engineering, 2013, 54, 224-233.	12.0	119
3	Microstructural characterization and mechanical properties of functionally graded Al2024/SiC composites prepared by powder metallurgy techniques. Transactions of Nonferrous Metals Society of China, 2015, 25, 3569-3577.	4.2	119
4	Physicomechanical properties of spark plasma sintered carbon nanotube-reinforced metal matrix nanocomposites. Progress in Materials Science, 2017, 90, 276-324.	32.8	118
5	Microstructure, electrical conductivity and hardness of multilayer graphene/Copper nanocomposites synthesized by flake powder metallurgy. Metals and Materials International, 2015, 21, 704-712.	3.4	106
6	Modeling the influence of a process control agent on the properties of metal matrix composite powders using artificial neural networks. Powder Technology, 2012, 228, 26-35.	4.2	97
7	The effect of type and ratio of reinforcement on the synthesis and characterization Cu-based nanocomposites by flake powder metallurgy. Journal of Alloys and Compounds, 2015, 649, 1066-1074.	5.5	73
8	Mechanical and thermal properties of AA7075/TiO$_2$/Fly ash hybrid composites obtained by hot forging. Progress in Natural Science: Materials International, 2017, 27, 474-481.	4.4	71
9	Effect of particle size and ratio of B4C reinforcement on properties and morphology of nanocrystalline Al2024-B4C composite powders. Powder Technology, 2013, 246, 462-472.	4.2	66
10	The wear and arc erosion behavior of novel copper based functionally graded electrical contact materials fabricated by hot pressing assisted electroless plating. Advanced Powder Technology, 2021, 32, 2873-2890.	4.1	66
11	Effect of volume fraction and size of B$_4$C particles on production and microstructure properties of B$_4$C reinforced aluminium alloy composites. Materials Science and Technology, 2013, 29, 954-960.	1.6	62
12	Determining the effect of process parameters on particle size in mechanical milling using the Taguchi method: Measurement and analysis. Measurement: Journal of the International Measurement Confederation, 2013, 46, 3532-3540.	5.0	61
13	Prediction of Effect of Reinforcement Size and Volume Fraction on the Abrasive Wear Behavior of AA2014/B4Cp MMCs Using Artificial Neural Network. Arabian Journal for Science and Engineering, 2014, 39, 6351-6361.	1.1	61
14	Synthesis and characterization of nanocrystalline Al 2024–B$_4$C composite powders by mechanical alloying. Philosophical Magazine Letters, 2013, 93, 339-345.	1.2	57
15	Physical and mechanical properties of stir-casting processed AA2024/B$_4$Cp composites. Science and Engineering of Composite Materials, 2014, 21, 505-515.	1.4	50
16	Investigating the surface integrity of aluminium based composites machined by EDM. Defence Technology, 2019, 15, 338-343.	4.2	49
17	A novel method for the production of metal powders without conventional atomization process. Journal of Cleaner Production, 2015, 99, 312-319.	9.3	48
18	Analysis of the effect of a new process control agent technique on the mechanical milling process using a neural network model: Measurement and modeling. Measurement: Journal of the International Measurement Confederation, 2013, 46, 1818-1827.	5.0	47

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19	Effect of weight percentage and particle size of B4C reinforcement on physical and mechanical properties of powder metallurgy Al2024-B4C composites. Metals and Materials International, 2013, 19, 1227-1234.	3.4	47
20	The effect of flake-like morphology on the coating properties of silver coated copper particles fabricated by electroless plating. Journal of Alloys and Compounds, 2019, 782, 679-688.	5.5	47
21	Formation of Fe–Al intermetallic coating on low-carbon steel by a novel mechanical alloying technique. Powder Technology, 2013, 247, 24-29.	4.2	45
22	Modeling of the Prediction of Densification Behavior of Powder Metallurgy Al–Cu–Mg/B4C Composites Using Artificial Neural Networks. Acta Metallurgica Sinica (English Letters), 2015, 28, 182-195.	2.9	44
23	Prediction of effect of reinforcement content, flake size and flake time on the density and hardness of flake AA2024-SiC nanocomposites using neural networks. Journal of Alloys and Compounds, 2018, 739, 1005-1014.	5.5	44
24	Effects of amount of methanol on characteristics of mechanically alloyed Al–Al$_2$O$_3$ composite powders. Materials Technology, 2012, 27, 320-327.	3.0	40
25	Effects of a new pre-milling coating process on the formation and properties of an Fe–Al intermetallic coating. Powder Technology, 2014, 268, 110-117.	4.2	40
26	The Effect of Flake Powder Metallurgy on the Microstructure and Densification Behavior of B4C Nanoparticle-Reinforced Al–Cu–Mg Alloy Matrix Nanocomposites. Arabian Journal for Science and Engineering, 2016, 41, 1781-1796.	1.1	40
27	Synthesis of novel CuSn$_{10}$ –graphite nanocomposite powders by mechanical alloying. Micro and Nano Letters, 2014, 9, 109-112.	1.3	38
28	Prediction of effect of volume fraction, compact pressure and milling time on properties of Al-Al2O3 MMCs using neural networks. Metals and Materials International, 2013, 19, 519-526.	3.4	37
29	Prediction of the influence of processing parameters on synthesis of Al2024-B4C composite powders in a planetary mill using an artificial neural network. Science and Engineering of Composite Materials, 2014, 21, 411-420.	1.4	37
30	Artificial neural network to predict the effect of heat treatment, reinforcement size, and volume fraction on AlCuMg alloy matrix composite properties fabricated by stir casting method. International Journal of Advanced Manufacturing Technology, 2015, 78, 305-317.	3.0	37
31	The effect of mechanical alloying on Al2O3 distribution and properties of Al2O3 particle reinforced Al-MMCs. Science and Engineering of Composite Materials, 2012, 19, 227-235.	1.4	35
32	Corrosion and wear behavior of functionally graded Al2024/SiC composites produced by hot pressing and consolidation. Journal of Alloys and Compounds, 2015, 644, 589-596.	5.5	35
33	Physicomechanical properties of spark plasma sintered carbon nanotube-containing ceramic matrix nanocomposites. Nanoscale, 2017, 9, 12779-12820.	5.6	34
34	The effect of silver coated copper particle content on the properties of novel Cu-Ag alloys prepared by hot pressing method. Powder Technology, 2021, 384, 236-246.	4.2	34
35	Fabrication of NanoSiC-Reinforced Al2024 Matrix Composites by a Novel Production Method. Arabian Journal for Science and Engineering, 2017, 42, 1751-1764.	3.0	32
36	Investigation of WEDM process parameters of Al–SiC–B4C composites using response surface methodology. International Journal of Lightweight Materials and Manufacture, 2020, 3, 127-135.	2.1	29

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37	A review on the performance of the materials by surface modification through EDM. International Journal of Lightweight Materials and Manufacture, 2021, 4, 127-144.	2.1	27
38	Effect of Al2O3 content and milling time on the properties of silver coated Cu matrix composites fabricated by electroless plating and hot pressing. Materials Today Communications, 2020, 24, 101153.	1.9	25
39	Fabrication and characterization of novel layered materials produced by electroless plating and hot pressing. Journal of Alloys and Compounds, 2020, 835, 155278.	5.5	24
40	Microstructure and Properties of Al-B$_4$C Functionally Graded Materials Produced by Powder Metallurgy Method. Universal Journal of Materials Science, 2014, 2, 90-95.	0.3	24
41	Microstructure and properties of Fe–Al intermetallic coatings on the low carbon steel synthesized by mechanical alloying. International Journal of Advanced Manufacturing Technology, 2014, 73, 849-858.	3.0	20
42	New Coating Technique for Al–B4C Composite Coatings by Mechanical Milling and Composite Coating. Powder Metallurgy and Metal Ceramics, 2015, 53, 672-679.	0.8	19
43	Microstructure and wear characterization of Al2O3 reinforced silver coated copper matrix composites by electroless plating and hot pressing methods. Materials Today Communications, 2021, 27, 102205.	1.9	18
44	Microstructure and Abrasive Wear Behavior of CuSn10–Graphite Composites Produced by Powder Metallurgy. Powder Metallurgy and Metal Ceramics, 2014, 53, 275-287.	0.8	16
45	An investigation on wear behavior of Cu-graphite nanocomposites prepared by flake powder metallurgy. Industrial Lubrication and Tribology, 2017, 69, 8-14.	1.3	16
46	Effects of fabrication parameters and post-processing treatments on the mechanical and tribological behavior of surface-enhanced copper based materials by selective laser melting. Journal of Materials Processing Technology, 2022, 304, 117564.	6.3	14
47	Artificial neural network-based prediction technique for coating thickness in Fe-Al coatings fabricated by mechanical milling. Particulate Science and Technology, 2018, 36, 742-750.	2.1	13
48	Artificial neural network analysis of the effect of matrix size and milling time on the properties of flake Al-Cu-Mg alloy particles synthesized by ball milling. Particulate Science and Technology, 2019, 37, 381-390.	2.1	12
49	The Effect of Selective Laser Melting Process on the Microstructure, Density, and Electrical Conductivity of Silver-Coated Copper Cores. Journal of Materials Engineering and Performance, 2021, 30, 5216-5226.	2.5	12
50	The Effect of Flake Microstructure on the Preparation and Properties of Cu–Graphite Sintered Nanocomposites. Powder Metallurgy and Metal Ceramics, 2016, 55, 426-436.	0.8	11
51	Hot corrosion behaviour of HVOF sprayed Ni$_3$Ti and Ni$_3$Ti + (Cr$_3$C$_2$ + 20NiCr) coatings in presence of Na$_2$SO$_4$-40%V$_2$O$_5$ at 650 Â°C. Surface Topography: Metrology and Properties, 2019, 7, 025019.	1.6	11
52	Development and characterization of bronze-Cr-Ni composites produced by powder metallurgy. Science and Engineering of Composite Materials, 2015, 22, .	1.4	10
53	Determining the effect of flake matrix size and Al$_2$O$_3$ content on microstructure and mechanical properties of Al$_2$O$_3$ nanoparticle reinforced Al matrix composites. Particulate Science and Technology, 2018, 36, 312-323.	2.1	10
54	The effect of machining processes on the physical and surface characteristics of AA2024-B$_4$C-SiC hybrid nanocomposites fabricated by hot pressing method. Journal of Composite Materials, 2021, 55, 2657-2671.	2.4	7

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55	Enhancement of electrical and thermal conductivity of low-cost novel Cu–Ag alloys prepared by hot-pressing and electroless plating from recycled electrolytic copper powders. Materials Chemistry and Physics, 2022, 281, 125892.	4.0	5
56	Synthesis of SiC nanoparticles by central composite design response surface methodology directed mechanical milling. Micro and Nano Letters, 2020, 15, 187-190.	1.3	4
57	Novel advanced copper-silver materials produced from recycled dendritic copper powders using electroless coating and hot pressing. Powder Metallurgy, 2022, 65, 390-402.	1.7	4
58	Fabrication of Functionally Graded Metal and Ceramic Powders Synthesized by Electroless Deposition. Advances in Chemical and Materials Engineering Book Series, 2021, , 150-187.	0.3	3
59	The effect of Milling time, Milling Speed and Ball to Powder Weight Ratio on the Physical Properties of Submicron Al2O3 Ceramic Particles Fabricated by Mechanical milling Method. Pamukkale University Journal of Engineering Sciences, 2018, 24, 635-642.	0.4	1
60	Additive Manufacturing of Non-ferrous Metals. Springer Tracts in Additive Manufacturing, 2022, , 91-120.	0.8	1
61	Akımsız kaplama yöntemi ile Cu-Ag bimetal parçacıkların üretimi ve karakterizasyonu. Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 0, , .	0.0	0
62	Katmanlı Parçacıklar Kullanılarak Üretilen Bakır Esaslı Malzemelerin Karakterizasyonu. Karadeniz Fen Bilimleri Dergisi, 0, , 346-358.	0.3	0
63	Production and Characterization of Al2024/SiC Composites with High SiC Reinforcement. Afyon Kocatepe University Journal of Sciences and Engineering, 2022, 22, 353-365.	0.2	0