List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | (Hf _{0.2} Zr _{0.2} Ta _{0.2} Nb _{0.2} Ti _{0.2})C highâ€entropy ceramics with low thermal conductivity. Journal of the American Ceramic Society, 2018, 101, 4486-4491. | 3.8 | 395 |
| 2 | Investigation of carbon nanotube reinforced aluminum matrix composite materials. Composites Science and Technology, 2010, 70, 546-550. | 7.8 | 214 |
| 3 | Highly Efficient and Recyclable Carbon Soot Sponge for Oil Cleanup. ACS Applied Materials & Interfaces, 2014, 6, 5924-5929. | 8.0 | 157 |
| 4 | Multimodal Nonlinear Optical Imaging of MoS ₂ and MoS ₂ -Based van der Waals Heterostructures. ACS Nano, 2016, 10, 3766-3775. | 14.6 | 127 |
| 5 | Laserâ€Directed Assembly of Aligned Carbon Nanotubes in Three Dimensions for Multifunctional Device Fabrication. Advanced Materials, 2016, 28, 2002-2009. | 21.0 | 119 |
| 6 | Two-photon polymerization: investigation of chemical and mechanical properties of resins using Raman microspectroscopy. Optics Letters, 2014, 39, 3034. | 3.3 | 112 |
| 7 | Load-bearing contribution of multi-walled carbon nanotubes on tensile response of aluminum. Composites Part A: Applied Science and Manufacturing, 2015, 68, 133-139. | 7.6 | 85 |
| 8 | Direct writing of graphene patterns on insulating substrates under ambient conditions. Scientific Reports, 2014, 4, 4892. | 3.3 | 78 |
| 9 | Interfacial microstructure of graphite flake reinforced aluminum matrix composites fabricated via hot pressing. Composites Part A: Applied Science and Manufacturing, 2015, 73, 125-131. | 7.6 | 62 |
| 10 | Spark plasma sintering behavior of pure aluminum depending on various sintering temperatures. Metals and Materials International, 2010, 16, 71-75. | 3.4 | 59 |
| 11 | Epitaxial growth of chromium carbide nanostructures on multiwalled carbon nanotubes (MWCNTs) in MWCNT–copper composites. Acta Materialia, 2013, 61, 708-716. | 7.9 | 54 |
| 12 | Tailoring interfacial bonding states of highly thermal performance diamond/Al composites: Spark plasma sintering vs. vacuum hot pressing. Composites Part A: Applied Science and Manufacturing, 2016, 91, 9-19. | 7.6 | 48 |
| 13 | Thermal expansion coefficient and thermal fatigue of discontinuous carbon fiber-reinforced copper and aluminum matrix composites without interfacial chemical bond. Journal of Materials Science, 2014, 49, 397-402. | 3.7 | 47 |
| 14 | Flame-enhanced laser-induced breakdown spectroscopy. Optics Express, 2014, 22, 7686. | 3.4 | 46 |
| 15 | A Facile Space-Confined Solid-Phase Sulfurization Strategy for Growth of High-Quality Ultrathin Molybdenum Disulfide Single Crystals. Nano Letters, 2018, 18, 2021-2032. | 9.1 | 42 |
| 16 | Preparation by tape casting and hot pressing of copper carbon composites films. Journal of the European Ceramic Society, 2007, 27, 291-299. | 5.7 | 39 |
| 17 | Iron oxidation under the influence of phosphate thin films. Journal of Applied Physics, 2003, 94, 784-788. | 2.5 | 38 |
| 18 | Laser-based micro/nanofabrication in one, two and three dimensions. Frontiers of Optoelectronics, 2015, 8, 351-378. | 3.7 | 36 |

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|----|--|------|-----------|
| 19 | Microstructure of a carbon fiber-reinforced aluminum matrix composite fabricated by spark plasma sintering in various pulse conditions. Journal of Materials Science, 2014, 49, 3268-3275. | 3.7 | 34 |
| 20 | Solid-state graphene formation via a nickel carbide intermediate phase. RSC Advances, 2015, 5, 99037-99043. | 3.6 | 34 |
| 21 | Architectural optimization for microelectronic packaging. Applied Thermal Engineering, 2009, 29, 2391-2395. | 6.0 | 33 |
| 22 | Fast Growth of GaN Epilayers via Laser-Assisted Metal–Organic Chemical Vapor Deposition for Ultraviolet Photodetector Applications. ACS Applied Materials & Interfaces, 2017, 9, 21539-21547. | 8.0 | 32 |
| 23 | Effect of flake powder metallurgy on thermal conductivity of graphite flakes reinforced aluminum matrix composites. Journal of Materials Science, 2018, 53, 8180-8192. | 3.7 | 32 |
| 24 | Additive manufacturing of copper/diamond composites for thermal management applications. Manufacturing Letters, 2020, 24, 61-66. | 2.2 | 31 |
| 25 | Surface modification of elastomer/carbon composite by Nd+:YAG laser and KrF excimer laser ablation. Applied Surface Science, 1999, 141, 25-34. | 6.1 | 29 |
| 26 | An innovative process to fabricate copper/diamond composite films for thermal management applications. Composites Part A: Applied Science and Manufacturing, 2012, 43, 1746-1753. | 7.6 | 29 |
| 27 | A review of processing of Cu/C base plate composites for interfacial control and improved properties. International Journal of Extreme Manufacturing, 2020, 2, 012002. | 12.7 | 28 |
| 28 | Laser 3D printing of complex copper structures. Additive Manufacturing, 2020, 35, 101268. | 3.0 | 27 |
| 29 | Simple Fabrication and Characterization of Discontinuous Carbon Fiber Reinforced Aluminum Matrix Composite for Lightweight Heat Sink Applications. Acta Metallurgica Sinica (English Letters), 2014, 27, 714-722. | 2.9 | 26 |
| 30 | Stress and Phase Purity Analyses of Diamond Films Deposited through Laser-Assisted Combustion Synthesis. ACS Applied Materials & Interfaces, 2011, 3, 4120-4125. | 8.0 | 25 |
| 31 | Largeâ€Area 2D/3D MoS ₂ –MoO ₂ Heterostructures with Thermally Stable Exciton and Intriguing Electrical Transport Behaviors. Advanced Electronic Materials, 2017, 3, 1600335. | 5.1 | 25 |
| 32 | Hardness and Young's modulus behavior of Al composites reinforced by nanometric TiB2 elaborated by mechanosynthesis. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 591, 1-8. | 5.6 | 24 |
| 33 | Copper-Carbon and Aluminum-Carbon Composites Fabricated by Powder Metallurgy Processes. Journal of Physics: Conference Series, 2014, 525, 012015. | 0.4 | 24 |
| 34 | Ultraviolet laser photolysis of hydrocarbons for nondiamond carbon suppression in chemical vapor deposition of diamond films. Light: Science and Applications, 2018, 7, 17177-17177. | 16.6 | 24 |
| 35 | Thermal and mechanical behavior of Al-Si alloy cast using magnetic molding and lost foam processes. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2006, 37, 441-447. | 2.2 | 22 |
| 36 | Femtosecond-laser sharp shaping of millimeter-scale geometries with vertical sidewalls. International Journal of Extreme Manufacturing, 2021, 3, 045001. | 12.7 | 22 |

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|----|---|-----|-----------|
| 37 | Influence of WC-Co Substrate Pretreatment on Diamond Film Deposition by Laser-Assisted Combustion Synthesis. ACS Applied Materials & amp; Interfaces, 2011, 3, 1134-1139. | 8.0 | 21 |
| 38 | Controlled defect creation and removal in graphene and MoS ₂ monolayers. Nanoscale, 2017, 9, 8997-9008. | 5.6 | 21 |
| 39 | Structural and Thermal Properties of Hot Pressed Cu/C Matrix Composites Materials Used for the Thermal Management of High Power Electronic Devices. Materials Science Forum, 2007, 534-536, 1505-1508. | 0.3 | 20 |
| 40 | Thermomechanical stability of a carbon fiber-reinforced aluminum matrix composite fabricated by spark plasma sintering in various pulse conditions. Materials Letters, 2014, 130, 32-35. | 2.6 | 20 |
| 41 | Fabrication of single crystalline diamond reinforced aluminum matrix composite by powder metallurgy route. Metals and Materials International, 2011, 17, 755-763. | 3.4 | 19 |
| 42 | Understanding of Void Formation in Cu/Sn-Sn/Cu System During Transient Liquid Phase Bonding Process Through Diffusion Modeling. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 3343-3356. | 2.1 | 18 |
| 43 | Low-Temperature Growth of Crystalline Gallium Nitride Films Using Vibrational Excitation of Ammonia Molecules in Laser-Assisted Metalorganic Chemical Vapor Deposition. Crystal Growth and Design, 2014, 14, 6248-6253. | 3.0 | 17 |
| 44 | Impact of violated highâ€dose refuge assumptions on evolution of <i>Bt</i> resistance. Evolutionary Applications, 2016, 9, 596-607. | 3.1 | 17 |
| 45 | Powder processing methodology for fabrication of Copper/Graphite composite materials with enhanced thermal properties. Composites Part A: Applied Science and Manufacturing, 2019, 124, 105474. | 7.6 | 17 |
| 46 | Magnetic field enhancement for femtosecond-laser-ablation mass spectrometry in ambient environments. Journal of Analytical Atomic Spectrometry, 2015, 30, 2303-2306. | 3.0 | 16 |
| 47 | Interface analysis in Al and Al alloys/Ni/carbon composites. Journal of Materials Science, 2000, 35, 961-965. | 3.7 | 15 |
| 48 | Interface characterisation and wettability properties of carbon particle reinforced copper alloy. Journal of Materials Chemistry, 2000, 10, 2213-2218. | 6.7 | 15 |
| 49 | Manufacturing of complex diamond-based composite structures via laser powder-bed fusion. Additive Manufacturing, 2021, 40, 101927. | 3.0 | 15 |
| 50 | Conception of a consumable copper reaction zone for a NiTi/SnAgCu composite material. Composites Part A: Applied Science and Manufacturing, 2002, 33, 1391-1395. | 7.6 | 14 |
| 51 | Thermally Stable and Electrically Conductive, Vertically Aligned Carbon Nanotube/Silicon Infiltrated Composite Structures for High-Temperature Electrodes. ACS Applied Materials & Interfaces, 2017, 9, 37340-37349. | 8.0 | 14 |
| 52 | Effect of titanium and zirconium carbide interphases on the thermal conductivity and interfacial heat transfers in copper/diamond composite materials. AIP Advances, 2019, 9, . | 1.3 | 14 |
| 53 | Xâ€ray photoelectron spectroscopy and transmission electron microscopy studies of the NiAl/Al2O3 interfacial chemical compatibility. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1995, 13, 1893-1900. | 2.1 | 13 |
| 54 | Thermal and mechanical behaviour of grey cast iron and ductile iron castings using magnetic molding and lost foam processes. Journal of Materials Processing Technology, 2009, 209, 4103-4111. | 6.3 | 13 |

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|----|---|-----|-----------|
| 55 | Contrast enhancement using silica microspheres in coherent anti-Stokes Raman spectroscopic imaging. Optics Express, 2014, 22, 2889. | 3.4 | 12 |
| 56 | Resonant vibrational excitation of ethylene molecules in laser-assisted diamond deposition. Laser Physics Letters, 2014, 11, 076002. | 1.4 | 11 |
| 57 | Resonant and nonresonant vibrational excitation of ammonia molecules in the growth of gallium nitride using laser-assisted metal organic chemical vapour deposition. Journal of Applied Physics, 2016, 120, 105303. | 2.5 | 11 |
| 58 | Fabrication of biomimetic titanium laminated material using flakes powder metallurgy. Journal of Materials Science, 2018, 53, 7857-7868. | 3.7 | 11 |
| 59 | Solid-liquid co-existent phase process: Towards fully dense and thermally efficient Cu/C composite materials. Journal of Alloys and Compounds, 2018, 738, 292-300. | 5.5 | 11 |
| 60 | EPMA and XPS studies of TiAlSiC interfacial chemical compatibility. Composites Part A: Applied Science and Manufacturing, 1996, 27, 691-695. | 7.6 | 10 |
| 61 | XPS investigations of Sn, SnPd and SnPd/Cu clusters produced by electroless deposition onto NiTi micronic particles formed by atomization. Surface and Interface Analysis, 2004, 36, 769-772. | 1.8 | 10 |
| 62 | Detection of trace-level uranium and samarium in glasses by combined laser-induced breakdown spectroscopy and plasma-induced fluorescence spectroscopy. Journal of Analytical Atomic Spectrometry, 2015, 30, 1128-1132. | 3.0 | 10 |
| 63 | Synergetic Effect of Discontinuous Carbon Fibers and Graphite Flakes on Thermo-Mechanical Properties of Aluminum Matrix Composites Fabricated by Solid–Liquid Phase Sintering. Metals and Materials International, 2020, 26, 155-167. | 3.4 | 10 |
| 64 | Effect of Material and Process Atmosphere in the Preparation of Al-Ti-B Grain Refiner by SHS. Metals, 2015, 5, 1387-1396. | 2.3 | 9 |
| 65 | Relationship between oviposition, virulence gene expression and parasitism success in Cotesia typhae nov. sp. parasitoid strains. Genetica, 2017, 145, 469-479. | 1.1 | 9 |
| 66 | Isotropic thermal expansion in anisotropic thermal management composites filled with carbon fibres and graphite. Journal of Materials Science, 2018, 53, 10910-10919. | 3.7 | 9 |
| 67 | Characterization of the interface reaction zone between iron and NiZn ferrite in a composite material - Study of a silica layer as a diffusion barrier. Journal of Alloys and Compounds, 2017, 724, 711-719. | 5.5 | 8 |
| 68 | Formation of Cu Nanodots on Diamond Surface to Improve Heat Transfer in Cu/D Composites. Advanced Engineering Materials, 2018, 20, 1700894. | 3.5 | 8 |
| 69 | From 1D to 2D arrangements of graphite flakes in an aluminium matrix composite: Impact on thermal properties. Scripta Materialia, 2020, 183, 86-90. | 5.2 | 8 |
| 70 | Spontaneous formation of multilayer refractory carbide coatings in a molten salt media. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 8 |
| 71 | Sensitivity and intensity enhancement in open air mass spectrometry assisted with a continuous wave infrared laser. Journal of Analytical Atomic Spectrometry, 2015, 30, 1663-1667. | 3.0 | 7 |
| 72 | Time-resolved resonance fluorescence spectroscopy for study of chemical reactions in laser-induced plasmas. Optics Express, 2017, 25, 27000. | 3.4 | 7 |

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|----|--|------|-----------|
| 73 | Effects of Laser Photolysis of Hydrocarbons at 193 and 248 nm on Chemical Vapor Deposition of Diamond Films. Crystal Growth and Design, 2018, 18, 2458-2466. | 3.0 | 7 |
| 74 | Laser sintering of cold-pressed Cu powder without binder use. Materialia, 2018, 3, 178-181. | 2.7 | 7 |
| 75 | Application of Eshelby's Tensor and Rotation Matrix for the Evaluation of Thermal Transport Properties of Composites. Mechanics of Advanced Materials and Structures, 2008, 15, 117-129. | 2.6 | 6 |
| 76 | Adaptive Composite Materials with Novel Architectures. Materials Science Forum, 0, 631-632, 149-154. | 0.3 | 6 |
| 77 | Thermal Characterization of Diamond Films through Modulated Photothermal Radiometry. ACS Applied Materials & Interfaces, 2014, 6, 2095-2102. | 8.0 | 6 |
| 78 | Design of tailored oxide-carbide coating on carbon fibers for a robust copper/carbon interphase. Carbon, 2020, 158, 607-614. | 10.3 | 6 |
| 79 | Laser vibrational excitation of radicals to prevent crystallinity degradation caused by boron doping in diamond. Science Advances, 2021, 7, . | 10.3 | 6 |
| 80 | Tailoring the microstructure of an oriented graphite flake/Al composite produced by powder metallurgy for achieving high thermal conductivity. Diamond and Related Materials, 2021, 118, 108513. | 3.9 | 6 |
| 81 | Electroless Coating Process of Carbon Nano Fibers by Copper Metal. Materials Science Forum, 2007, 534-536, 1445-1448. | 0.3 | 5 |
| 82 | Ultra-low temperature fabrication of copper carbon fibre composites by hydrothermal sintering for heat sinks with enhanced thermal efficiency. Composites Part A: Applied Science and Manufacturing, 2020, 133, 105858. | 7.6 | 5 |
| 83 | Controlling Interfacial Exchanges in Liquid Phase Bonding Enables Formation of Strong and Reliable Cu–Sn Soldering for High-Power and Temperature Applications. ACS Applied Electronic Materials, 2021, 3, 921-928. | 4.3 | 5 |
| 84 | Laser-assisted vibrational control of precursor molecules in diamond synthesis. Current Opinion in Solid State and Materials Science, 2015, 19, 107-114. | 11.5 | 4 |
| 85 | Analysis of the Solidification and Microstructure of Two Aluminium Alloys Reinforced with TiB ₂ Particles. Advanced Engineering Materials, 2011, 13, 887-894. | 3.5 | 3 |
| 86 | Spectroscopic Sensing of O ₂ –C ₂ H ₂ –C ₂ H ₄ Flames for Diamond Growth Using Femtosecond Filamentation. Crystal Growth and Design, 2017, 17, 3443-3449. | 3.0 | 3 |
| 87 | Correlation of the mechanical properties of Cu/C composite materials with the chemistry of Cu C interfacial zone. Materials Characterization, 2021, 179, 111364. | 4.4 | 3 |
| 88 | Atomic force microscopy and x-ray photoelectron spectroscopy investigations of the morphology and chemistry of a PdCl2â^•SnCl2 electroless plating catalysis system adsorbed onto shape memory alloy particles. Journal of Applied Physics, 2004, 96, 4945-4951. | 2.5 | 2 |
| 89 | Determination of the oxidation kinetics of modifiedα-iron substrate: correlation between TGA and AES. Surface and Interface Analysis, 2004, 36, 1014-1017. | 1.8 | 2 |
| 90 | Enhanced coherent anti-Stokes Raman scattering imaging using silica mircospheres. Proceedings of SPIE, 2014, , . | 0.8 | 2 |

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| 91 | Mass spectrometric investigation of the roles of several chemical intermediates in diamond synthesis. RSC Advances, 2015, 5, 4822-4830. | 3.6 | 2 |
| 92 | Seed-free deposition of large-area adhesive diamond films on copper surfaces processed and patterned by femtosecond lasers. Thin Solid Films, 2017, 636, 499-505. | 1.8 | 2 |
| 93 | Facile and Green Reduction of Graphene Oxide by a Reduced Polyoxometalate and Formation of a Nanohybrid. ChemPlusChem, 2017, 82, 186-189. | 2.8 | 2 |
| 94 | Multi-walled carbon nanotube-coated spiral coils for loss reduction in wireless power transfer systems. Carbon, 2018, 139, 695-699. | 10.3 | 2 |
| 95 | XPS studies of YBa2Cu3O7??/Ag high-TC superconductor. Surface and Interface Analysis, 2000, 30, 448-453. | 1.8 | 1 |
| 96 | Fabrication and characterisation of graphite/alumina reinforced copper composites. Journal of Materials Science, 2000, 35, 5967-5971. | 3.7 | 1 |
| 97 | Isotope signature characterization of Pb and U in open air by laser-ablation mass spectrometry. Journal of Analytical Atomic Spectrometry, 2017, 32, 1932-1937. | 3.0 | 1 |
| 98 | Control of Mechanical Properties of Functionally Graded Dual-Nanoparticle-Reinforced Composites. Materials Science Forum, 2018, 941, 2037-2040. | 0.3 | 1 |
| 99 | Forming three-dimensional micro-objects using two-dimensional gradient printing. Applied Materials Today, 2022, 28, 101538. | 4.3 | 1 |
| 100 | PET Treatment in Different Solvents: Influence on the Adhesion After Metallization. Journal of Adhesion, 1992, 38, 235-241. | 3.0 | 0 |
| 101 | Synthesis of copper/chromium oxide composites by a chemical processing method. Journal of Materials Science, 2011, 46, 2105-2111. | 3.7 | 0 |
| 102 | Influence of Laser Vibrational Excitations of Ethylene Molecules in Laser-Assisted Combustion Diamond Synthesis. Materials Research Society Symposia Proceedings, 2015, 1734, 1. | 0.1 | 0 |
| 103 | Time-resolved resonance fluorescence spectroscopy for study of chemical reactions in laser-induced breakdown spectroscopy. , 2017, , . | | 0 |