# Khaled Morsi

List of Publications by Year
in descending order



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|---|---|---|---|
| 65 papers | 3,235 citations | 394421 19 h-index | 149698 56 g-index |
| 69 all docs | 69 docs citations | 69 times ranked | 2157 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Effect of carbon nanotube (CNT) content on the mechanical properties of CNT-reinforced aluminium composites. Composites Science and Technology, 2010, 70, 2237-2241. | 7.8 | 504 |
| 2 | Dispersion of carbon nanotubes (CNTs) in aluminum powder. Composites Part A: Applied Science and Manufacturing, 2007, 38, 646-650. | 7.6 | 384 |
| 3 | Fabrication and properties of dispersed carbon nanotubeâ€“aluminum composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 508, 167-173. | 5.6 | 376 |
| 4 | Review: reaction synthesis processing of Niâ€“Al intermetallic materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 299, 1-15. | 5.6 | 366 |
| 5 | Processing and properties of titaniumâ€“titanium boride (TiBw) matrix compositesâ€”a review. Journal of Materials Science, 2007, 42, 2037-2047. | 3.7 | 245 |
| 6 | The influence of carbon nanotube (CNT) morphology and diameter on the processing and properties of CNT-reinforced aluminium composites. Composites Part A: Applied Science and Manufacturing, 2011, 42, 234-243. | 7.6 | 215 |
| 7 | Effect of mechanical alloying time and carbon nanotube (CNT) content on the evolution of aluminum (Al)â€“CNT composite powders. Journal of Materials Science, 2007, 42, 4954-4959. | 3.7 | 154 |
| 8 | The diversity of combustion synthesis processing: a review. Journal of Materials Science, 2012, 47, 68-92. | 3.7 | 129 |
| 9 | Spark plasma extrusion (SPE) of ball-milled aluminum and carbon nanotube reinforced aluminum composite powders. Composites Part A: Applied Science and Manufacturing, 2010, 41, 322-326. | 7.6 | 100 |
| 10 | Review: titaniumâ€“titanium boride composites. Journal of Materials Science, 2019, 54, 6753-6771. | 3.7 | 67 |
| 11 | Properties of single and dual matrix aluminumâ€“carbon nanotube composites processed via spark plasma extrusion (SPE). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 5686-5690. | 5.6 | 61 |
| 12 | Pressure-less and current-activated pressure-assisted sintering of titanium dual matrix composites: Effect of reinforcement particle size. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 507, 161-166. | 5.6 | 46 |
| 13 | Processing of titaniumâ€“titanium boride dual matrix composites. Journal of Materials Processing Technology, 2008, 196, 236-242. | 6.3 | 45 |
| 14 | Characterization and Spark Plasma Sintering of Mechanically Milled Aluminum-Carbon Nanotube (CNT) Composite Powders. Journal of Composite Materials, 2010, 44, 1991-2003. | 2.4 | 37 |
| 15 | Ultra-rapid processing of high-hardness tungstenâ€“copper nanocomposites. Scripta Materialia, 2016, 113, 246-249. | 5.2 | 31 |
| 16 | Control of heat generation during reaction synthesis. Scripta Materialia, 1999, 40, 359-364. | 5.2 | 29 |
| 17 | Combustion synthesis and the electric field: A review. International Journal of Self-Propagating High-Temperature Synthesis, 2017, 26, 199-209. | 0.5 | 29 |
| 18 | Spark plasma extrusion (SPE): Prospects and potential. Scripta Materialia, 2009, 61, 395-398. | 5.2 | 27 |

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|---|---|---|---|
| 19 | Self-propagating high-temperature synthesis (SHS) of rotator mixed and mechanically alloyed Ni/Al powder compacts. Journal of Materials Science, 2006, 41, 5699-5703. | 3.7 | 22 |
| 20 | Simultaneous combustion synthesis (thermal explosion mode) and extrusion of nickel aluminides. Journal of Materials Science, 2005, 40, 1027-1030. | 3.7 | 20 |
| 21 | Effect of mechanical alloying on the microstructure and properties of Alâ€“Snâ€“Mg alloy. Journal of Alloys and Compounds, 2012, 540, 100-106. | 5.5 | 20 |
| 22 | Viability of Titanium-Titanium Boride Composite as a Biomaterial. ISRN Biomaterials, 2013, 2013, 1-8. | 0.7 | 19 |
| 23 | Hot pressing of graded ultrafine-grained alumina bioceramics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 386, 384-389. | 5.6 | 16 |
| 24 | Formation of Ni3Al and NiAl by hot extrusion reaction synthesis (HERS). Scripta Materialia, 1997, 37, 1839-1842. | 5.2 | 15 |
| 25 | Low-energy forging of aluminide intermetallics. Scripta Materialia, 2003, 48, 707-712. | 5.2 | 15 |
| 26 | Current-activated pressure-assisted sintering (CAPAS) and nanoindentation mapping of dual matrix composites. Journal of Materials Science, 2008, 43, 4050-4056. | 3.7 | 15 |
| 27 | High-temperature oxidation of reactively processed nickel aluminide intermetallics. Journal of Alloys and Compounds, 2006, 426, 136-143. | 5.5 | 14 |
| 28 | Effect of particle size and volume fraction on hot extrusion reaction synthesis of SiC particle reinforced NiAl. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2000, 31, 1663-1670. | 2.2 | 13 |
| 29 | Novel current-activated tip-based sintering (CATS): Localization of spark plasma sintering. Scripta Materialia, 2009, 60, 745-748. | 5.2 | 13 |
| 30 | Equal channel angular pressing followed by combustion synthesis of titanium aluminides. Journal of Alloys and Compounds, 2007, 429, L1-L4. | 5.5 | 12 |
| 31 | Processing defects in hot extrusion reaction synthesis. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 290, 39-45. | 5.6 | 11 |
| 32 | Reactive Thermomechanical Processing of Intermetallic Materials. Journal of Materials Engineering and Performance, 2003, 12, 147-156. | 2.5 | 10 |
| 33 | Combustion forging of FeAl (40 at.% Al). Journal of Materials Science, 2004, 39, 4849-4854. | 3.7 | 10 |
| 34 | Combustion synthesis of microstructurally designed green powder compacts. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 478, 208-213. | 5.6 | 10 |
| 35 | Hot pressing of graded ultrafine-grained alumina bioceramics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 386, 384-389. | 5.6 | 10 |
| 36 | Processing of grain-size functionally gradient bioceramics for implant applications. Journal of Materials Science: Materials in Medicine, 2004, 15, 191-197. | 3.6 | 9 |

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| 37 | Reactive pressing of intermetallics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 454-455, 641-647. | 5.6 | 9 |
| 38 | Novel Aluminum (Al)-Carbon Nanotube (CNT) Open-Cell Foams. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 2574-2578. | 2.2 | 9 |
| 39 | Processing, characterization, and properties of aluminumâ€“carbon nanotube open-cell foams. Journal of Materials Science, 2017, 52, 3927-3935. | 3.7 | 8 |
| 40 | Effect of Carbon Nanotube (CNT) Length on the Mechanical Milling of Ni-CNT Powders and Ni-CNT/Al Reactive Synthesis. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 6351-6358. | 2.2 | 8 |
| 41 | Effects of current intensity and cumulative exposure time on the localized current-activated sintering of titanium nickelides. Journal of Materials Science, 2011, 46, 6690-6699. | 3.7 | 7 |
| 42 | Rapid processing & characterization of micro-scale functionally graded porous materials. Journal of Materials Processing Technology, 2013, 213, 1251-1257. | 6.3 | 7 |
| 43 | Spark Plasma Extrusion and the Thermal Barrier Concept. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 656-665. | 2.1 | 7 |
| 44 | Limitations Due to High Extrusion Temperatures in Hot Extrusion Reaction Synthesis of Ni3Al. Journal of Materials Science Letters, 1998, 17, 1621-1622. | 0.5 | 6 |
| 45 | Preliminary evaluation of hot extrusion miniaturization. Journal of Materials Science, 1999, 34, 2801-2806. | 3.7 | 6 |
| 46 | Reactive sintering of boron-doped Ni76Al24 intermetallic. Journal of Materials Science, 2002, 37, 2005-2009. | 3.7 | 6 |
| 47 | Reactive extrusion and high-temperature oxidation of Ni3Al. Journal of Materials Science, 2006, 41, 1265-1268. | 3.7 | 6 |
| 48 | Effect of mechanical and electrical activation on the combustion synthesis of Al3Ti. Journal of Materials Science, 2014, 49, 5271-5278. | 3.7 | 6 |
| 49 | Long-term post-processing disintegration of aluminumâ€“carbon nanotube composites. Journal of Materials Science, 2016, 51, 2049-2056. | 3.7 | 6 |
| 50 | Effect of specimen size on the composition of hot extrusion reaction synthesized NiAl. Journal of Materials Science Letters, 2000, 19, 331-332. | 0.5 | 5 |
| 51 | Effect of nickel particle size on the compaction behavior of rotator mixed and mechanically alloyed nickel and aluminum powders. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 426, 283-288. | 5.6 | 5 |
| 52 | Pressure un-assisted reactive powder processing of high-density aluminide composites. Journal of Alloys and Compounds, 2008, 452, 367-372. | 5.5 | 5 |
| 53 | Green Compact Temperature Evolution during Current-Activated Tip-Based Sintering (CATS) of Nickel. Metals, 2013, 3, 178-187. | 2.3 | 5 |
| 54 | Piezoelectric Actuator-Based Nanoindentation. International Journal of Optomechatronics, 2007, 1, 103-121. | 6.6 | 3 |

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|---|---|---|---|
| 55 | Reactive Current-Activated Tip-Based Sintering of Niâ€“Al Intermetallics. Metallography, Microstructure, and Analysis, 2013, 2, 148-155. | 1.0 | 3 |
| 56 | Electrically activated reactive synthesis (EARS) and electro-annealing of 3Niâ€“Al powder compacts. Journal of Materials Science, 2018, 53, 12512-12522. | 3.7 | 3 |
| 57 | Novel Spark Plasma Extrusion of Titanium Above and Below the Î²-Transus: Effect on Microstructure and Properties. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 1363-1369. | 2.1 | 3 |
| 58 | Reactive processing and properties of nickel aluminideâ€“carbon nanotube composites. Journal of Materials Science, 2021, 56, 19501-19511. | 3.7 | 2 |
| 59 | Novel Ballistic Processing of Sn-0.7Cu Thick Films. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 46-50. | 2.2 | 1 |
| 60 | Electrically-activated reactive synthesis (EARS) and electro-annealing of Ni/CNT-Al nanocomposite powders. Journal of Alloys and Compounds, 2019, 789, 792-799. | 5.5 | 1 |
| 61 | Novel Electro-Combustion Forging of Ni-Ti Intermetallic Nanocomposites. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 1344-1349. | 2.1 | 1 |
| 62 | Electrically Activated Reaction Synthesis of Ni-CNT/Al Hierarchical Composite Powders. Journal of Engineering Materials and Technology, Transactions of the ASME, 2021, 143, . | 1.4 | 1 |
| 63 | Effect of Shortening Carbon Nanotubes on Carbon Nanotube Dispersion, Damage and Mechanical Behavior of Carbon Nanotube-Metal Matrix Nanocomposites. Metallography, Microstructure, and Analysis, 2021, 10, 167-173. | 1.0 | 1 |
| 64 | Effects of Preheating by Direct Electric Current on the Self-propagating High-Temperature Synthesis of Ni3Al-CNT Intermetallic Nanocomposites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 2823-2831. | 2.2 | 1 |
| 65 | Novel Ballistic Processing of Thick Films: Structural Evolution and Mechanical Behavior. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 6432-6438. | 2.2 | 0 |