# Spyros Kamnis

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/685712/publications.pdf

Version: 2024-02-01

36
papers

900
citations

393982
19
h-index

476904
29
g-index

37
all docs

37
docs citations

37
times ranked

502
citing authors

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Numerical modelling of droplet impingement. Journal Physics D: Applied Physics, 2005, 38, 3664-3673. | 1.3 | 74 |
| 2 | 3-D modelling of kerosene-fuelled HVOF thermal spray gun. Chemical Engineering Science, 2006, 61, 5427-5439. | 1.9 | 69 |
| 3 | Numerical modelling of propane combustion in a high velocity oxygenâ€"fuel thermal spray gun. Chemical Engineering and Processing: Process Intensification, 2006, 45, 246-253. | 1.8 | 59 |
| 4 | Computational simulation of thermally sprayed WCâ€"Co powder. Computational Materials Science, 2008, 43, 1172-1182. | 1.4 | 45 |
| 5 | Study of impingement of hollow ZrO2 droplets onto a substrate. Surface and Coatings Technology, 2013, 220, 164-169. | 2.2 | 45 |
| 6 | Mathematical modelling of Inconel 718 particles in HVOF thermal spraying. Surface and Coatings Technology, 2008, 202, 2715-2724. | 2.2 | 42 |
| 7 | Numerical modelling of sequential droplet impingements. Journal Physics D: Applied Physics, 2008, 41, 165303. | 1.3 | 36 |
| 8 | Experimental study of high velocity oxy-fuel sprayed WC-17Co coatings applied on complex geometries. Part A: Influence of kinematic spray parameters on thickness, porosity, residual stresses and microhardness. Surface and Coatings Technology, 2017, 311, 206-215. | 2.2 | 35 |
| 9 | Numerical simulation of in-flight particle oxidation during thermal spraying. Computers and Chemical Engineering, 2008, 32, 1661-1668. | 2.0 | 33 |
| 10 | Numerical study of molten and semi-molten ceramic impingement by using coupled Eulerian and Lagrangian method. Acta Materialia, 2015, 90, 77-87. | 3.8 | 33 |
| 11 | Numerical modelling of in-flight particle dynamics of non-spherical powder. Surface and Coatings Technology, 2009, 203, 3485-3490. | 2.2 | 29 |
| 12 | Effect of Particle and Carbide Grain Sizes on a HVOAF WC-Co-Cr Coating for the Future Application on Internal Surfaces: Microstructure and Wear. Journal of Thermal Spray Technology, 2018, 27, 207-219. | 1.6 | 29 |
| 13 | Sliding wear behaviour of WC-Co reinforced NiCrFeSiB HVOAF thermal spray coatings against WC-Co and Al2O3 counterbodies. Surface and Coatings Technology, 2020, 386, 125468. | 2.2 | 26 |
| 14 | Study of In-Flight and Impact Dynamics of Nonspherical Particles from HVOF Guns. Journal of Thermal Spray Technology, 2010, 19, 31-41. | 1.6 | 25 |
| 15 | Simulation of impact of a hollow droplet on a flat surface. Applied Physics A: Materials Science and Processing, 2012, 109, 101-109. | 1.1 | 25 |
| 16 | FIB-SEM Sectioning Study of Decarburization Products in the Microstructure of HVOF-Sprayed WC-Co Coatings. Journal of Thermal Spray Technology, 2018, 27, 898-908. | 1.6 | 25 |
| 17 | Experimental study of high velocity oxy-fuel sprayed WC-17Co coatings applied on complex geometries. Part B: Influence of kinematic spray parameters on microstructure, phase composition and decarburization of the coatings. Surface and Coatings Technology, 2017, 328, 499-512. | 2.2 | 23 |
| 18 | Numerical investigation of combustion and liquid feedstock in high velocity suspension flame spraying process. Surface and Coatings Technology, 2013, 228, 176-186. | 2.2 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Numerical modeling the bonding mechanism of HVOF sprayed particles. Computational Materials Science, 2009, 46, 1038-1043. | 1.4 | 21 |
| 20 | Numerical Study to Examine the Effect of Porosity on In-Flight Particle Dynamics. Journal of Thermal Spray Technology, 2011, 20, 630-637. | 1.6 | 19 |
| 21 | Effects and Interplays of Spray Angle and Stand-off Distance on the Sliding Wear Behavior of HVOF WC-17Co Coatings. Journal of Thermal Spray Technology, 2019, 28, 514-534. | 1.6 | 18 |
| 22 | Aeroacoustics and Artificial Neural Network Modeling of Airborne Acoustic Emissions During High Kinetic Energy Thermal Spraying. Journal of Thermal Spray Technology, 2019, 28, 946-962. | 1.6 | 18 |
| 23 | Numerical Analysis of Multicomponent Suspension Droplets in High-Velocity Flame Spray Process. Journal of Thermal Spray Technology, 2014, 23, 940-949. | 1.6 | 17 |
| 24 | Digital transformation of thermal and cold spray processes with emphasis on machine learning. Surface and Coatings Technology, 2022, 433, 128138. | 2.2 | 17 |
| 25 | Modeling the Effects of Concentration of Solid Nanoparticles in Liquid Feedstock Injection on High-Velocity Suspension Flame Spray Process. Industrial & Engineering Chemistry Research, 2016, 55, 2556-2573. | 1.8 | 13 |
| 26 | A general-purpose spray coating deposition software simulator. Surface and Coatings Technology, 2020, 399, 126148. | 2.2 | 13 |
| 27 | The Influence of Powder Porosity on the Bonding Mechanism at the Impact of Thermally Sprayed Solid Particles. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 3517-3524. | 1.1 | 12 |
| 28 | Computational Development of a Novel Aerosol Synthesis Technique for Production of Dense and Nanostructured Zirconia Coating. Industrial & Engineering Chemistry Research, 2016, 55, 7679-7695. | 1.8 | 12 |
| 29 | Roadmap on signal processing for next generation measurement systems. Measurement Science and Technology, 2022, 33, 012002. | 1.4 | 12 |
| 30 | Thermal Spray Coatings for Electromagnetic Wave Absorption and Interference Shielding: A Review and Future Challenges. Advanced Engineering Materials, 2022, 24, . | 1.6 | 12 |
| 31 | Influence of heat treatment on the microstructure and the physical and mechanical properties of dental highly translucent zirconia. Journal of Advanced Prosthodontics, 2022, 14, 96. | 1.1 | 11 |
| 32 | Wear rate at RT and 100ÂÂ°C and operating temperature range of microalloyed Cu50Zr50 shape memory alloy. Journal of Alloys and Compounds, 2020, 817, 153330. | 2.8 | 8 |
| 33 | Numerical investigation on effects of nanoparticles on liquid feedstock behavior in High Velocity Oxygen Fuel (HVOF) suspension spraying. Surface and Coatings Technology, 2015, 280, 370-377. | 2.2 | 7 |
| 34 | Prediction of Coating Properties of Thermally Sprayed WCâ€"Co on Complex Geometries. Journal of Thermal Spray Technology, 2018, 27, 1025-1037. | 1.6 | 6 |
| 35 | Computational fluid dynamic modelling of water-cooling mechanism during thermal spraying process. International Journal of Modelling, Identification and Control, 2007, 2, 229. | 0.2 | 5 |
| 36 | Thermal History Coatings: Part I â€" Influence of Atmospheric Plasma Spray Parameters on Performance. , 2020, , . | | 2 |