Exposition of themes

INFRASTRUCTURE

Title	Authors
Hybrid dust of construction and demolition waste in the compressive strength of hydraulic concrete mixtures	Liliana Carolina Hernandez Garcia and Henry A. Colorado L.
Evaluation of the anticorrosive properties of a paint using Buddleja incana extract as a corrosion inhibitor	Karin Paucar Cuba, Karen Tufinio Miranda, Abel Vergara Sotomayor, Harold Ames Canchaya, Manuel Cruz Torres, Adolfo La Rosa Toro, Pedro Arturo Pizarro Solis and Beatriz Gloria Orcón Basilio
Evaluation of the erosion behavior of a UNS C52400 bronze for potential application in 1 KW hydrokinetic turbine blades	Daniel Ramirez and Juan Rojas
Austenite formation in ductile iron alloyed with copper and nickel	Harold Machado, Ricardo Aristizabal-Sierra and Mateo Montoya Mejia
Application of isothermal heat treatments in AISI A2 tool steel to improve life of cold working tools	Jheison Tobón, Claudia Serna and Oscar Ríos
NANOBAINITIC CAST STEELS: SCIENTIFIC ADVANCES FOR THE INDUSTRIAL SECTOR	Mateo Montoya-Mejia, Andrés Santacruz-Londoño, Oscar Rios-Diez and Ricardo Aristizabal-Sierra
CARBO-AUSTEMPERING OF HIGH SILICON STEELS: AN INNOVATIVE ALTERNATIVE FOR SURFACE HEAT TREATMENT	Oscar Rios-Diez, Claudia Serna-Giraldo, Ricardo Aristizabal-Sierra and Carlos Gacia-Mateo
Effect of the binder type on the yield of the 3-YSZ nanoparticles pelletized to their use as feedstock in thermally sprayed coatings	Robin Nilson Muñoz, Santiago Marín, Nicolas Puentes, Jhoman Arias and Fabio Vargas Galvis
Thermal projection by flame, is a way to obtain ceramic coatings resistant to wear at high temperatures	Martha Ferrer, Fabio Vargas and Luis Emilio Vera
Fabrication of Hydroxyapatite/Polyester composite coatings by high velocity oxygen fuel spray (HVOF)	Juan Carlos Jamboos, John Dairo Henao, Astrid Giraldo and Carlos Agustín Poblano
AGLOMERATION OF Al2O3 NANOMETRIC AND SUBMICROMETRIC PARTICLES BY SPRAY DRYING FOR THEIR USE AS FEEDSTOCK IN THERMAL SPRAYING COATINGS	Edwin Cadavid, Geraldin Estrada, Esperanza López and Fabio Vargas
IMPROVEMENT OF THE STRUCTURAL QUALITY OF NICrBSiFe COATINGS ELABORATED BY OXY-ACETYLENE FLAME SPRAYING FROM CONTROL OF THE MAIN PROCESS PARAMETERS	Edward Ferney Restrepo Hoyos, Fabio Vargas Galvis, Roger Cardona, Sebastian Carvajal and Juan David Carvajal
Axisymmetric modeling and CFD simulation of cold projection for ceramic particles of HAp (Hydroxyapatite).	Esaú Moisés Rodríguez Vigueras, John Dairo Henao Penenrey, Jonattan Said Unda Lopez, Carlos A Poblano Salas and Astrid Lorena Giraldo Betancur
Flame spraying as alternative for sintering spray dried AT-13 granules	Juan David Holguín, Francy Milena Hurtado, María Esperanza López and Fabio Vargas Galvis
STUDY OF THERMAL SPRAY PARAMETERS THROUGH NUMERICAL SIMULATIONS FOR CERAMIC POWDERS	Juan Camilo Arango Galvez, Alejandro Alvarez Uribe, Alejandro Marulanda Tobon and Claudia Constanza Palacio Espinosa
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Characterization of YSZ powders obtained by ball mill grinding with potential application in thermal barrier systems	Jhonatan Román Román, Maria Estéfany Bedoya, Lina María Chica Osorio, Alejandro Toro Betancur
Thermally sprayed hydroxyapatite-based coatings: advantages and challenges	John Henao, Astrid Giraldo-Betancurt and Carlos Poblano-Salas