# PUBLICACIONES DERIVADAS DE TESIS DOCTORALES
# PERIODO 2017-2023

## PROGRAMA DE DOCTORADO EN NANOCIENCIA Y TECNOLOGÍAS DE MATERIALES

**2023**

147. EFFECT OF THE DRYING PROCEDURE ON HYBRID SONO-AEREOGELS FOR ORGANIC SOLVENT REMEDIATION [Influencia del procedimiento de secado en sono-aerogeles híbridos para la eliminación de solventes orgánicos]
Reyes-Peces M.; Amaya-Dolores B.; Morales-Flórez V.; de-los-Santos D.; del Mar Mesa M.; Esquivias L.; de-la-Rosa-Fox N.; Piñero M.;
Boletin de la Sociedad Espanola de Ceramica y Vidrio n/a, null-null (2023).

146. COLLOIDAL SUSPENSIONS OF TOTALLY INORGANIC PEROVSKITES NANOPARTICLES: A NEW PHOTOLUMINESCENT EMISSION IN THE NEAR-IR
Rodríguez-Fernández M.; Carlos Piñero J.; Alcántara R.; Navas J.;
Journal of Molecular Liquids 384, 122194 (2023).

145. NEW EREMOPHILANE-TYPE SESQUITERPENES FROM THE MARINE SEDIMENT-DERIVED FUNGUS EMERICELLOPSIS MARITIMA BC17 AND THEIR CYTOTOXIC AND ANTIMICROBIAL ACTIVITIES
Virués-Segovia J.R.; Millán C.; Pinedo C.; González-Rodríguez V.E.; Papaspyrou S.; Zorrilla D.; Mackenzie T.A.; Ramos M.C.; de la Cruz M.; Aleu J.; Durán-Patrón R.;
Marine Drugs 21 (12), 634 (2023).

144. GENERATION OF HIGH-POROSITY CERIUM OXIDE NANOPARTICLES AND THEIR FUNCTIONALIZATION WITH CARYOPHYLLENE OXIDE USING SUPERCRITICAL CARBON DIOXIDE
García-Casas I.; Montes A.; de los Santos D.M.; Valor D.; Pereyra C.; de la Ossa E.M.;
Journal of Supercritical Fluids 196, 105901 (2023).

143. LOW TEMPERATURE GROWTH OF NANOCRYSTALLINE DIAMOND: INSIGHT THERMAL PROPERTY
Millán-Barba J.; Taylor A.; Bakkali H.; Alcantara R.; Lloret F.; de Villoria R.G.; Dominguez M.; Mortet V.; Gutiérrez M.; Araújo D.
Diamond and Related Materials 137, 110070 (2023).

9. WSE2 NANOWIRES-BASED NANOFLUIDS FOR CONCENTRATING SOLAR POWER
Martínez-Merino P.; Alcántara R.; Navas J.;
Materials Today Chemistry 27, 101323 (2023).

142. EMISSION PROPERTIES OF PD-DOPED CSPBBR3 PEROVSKITE NANOCRYSTAL: INFRARED EMISSION DUE TO THE PD-DOPING
Rodríguez-Fernández M.; Piñero J.C.; Alcántara R.; Gallardo J.J.; Navas J.;
Heliyon 9 (6), e16775 (2023).

141. INCORPORATION OF CARBON BLACK INTO A SONOGEL MATRIX: IMPROVING ANTIFOULING PROPERTIES OF A CONDUCTING POLYMER CERAMIC NANOCOMPOSITE
Calatayud Macías, Paloma; Cubillana Aguilera, Laura Maria; García Guzmán, Juan José; López, David; Palacios Santander, José María; Sierra Padilla, Alfonso
Microchimica Acta 190, 168 (2023).

140. BORON-DOPED DIAMOND GROWTH ON CARBON FIBRE: ENHANCING THE ELECTRICAL CONDUCTIVITY
Millán Barba , Josué; Araújo Gay, Daniel; Bakkali , Hicham; Dominguez De La Vega, Manuel; Gutiérrez Peinado, Marina; Lloret Vieira, Fernando
Applied Surface Science 615, (2023).

139. LOW TEMPERATURE GROWTH OF NANOCRYSTALLINE DIAMOND: INSIGHT THERMAL PROPERTY
Millán Barba , Josué; Alcántara Puerto, Rodrigo; Araújo Gay, Daniel; Bakkali , Hicham; Dominguez De La Vega, Manuel; Gutiérrez Peinado, Marina; Guzmán De Villoria, Roberto; Lloret Vieira, Fernando; Mortet, Vincent; Taylor, Andrew
Diamond And Related Materials 137, (2023).

138. NOVEL LASER TEXTURING OF W-DOPED VO2 THIN FILM FOR THE IMPROVEMENT OF LUMINOUS TRANSMITTANCE IN SMART WINDOWS APPLICATION
Blanco, E.; Casas Acuña, Andrea; Delgado Jaén, Juan José; Dominguez De La Vega, Manuel; Outón, Javier; Ramírez Del Solar, Milagrosa
Applied Surface Science 698, 155180 (2023).

137. CHITOSAN-SILICA HYBRID BIOMATERIALS FOR BONE TISSUE ENGINEERING: A COMPARATIVE STUDY OF XEROGELS AND AEROGELS
Esquivias Fedriani, Luis Maria; Fernández Montesinos, Rafael; Mesa Diaz, Maria Mar; Pérez Moreno, Antonio; Piñero De Los Rios, Manuel; Reyes, Maria Virtudes; Salido Peracaula, Mercedes
Gels 9, 383 (2023).

136. EXPLORING THE FORMATION OF INAS(BI)/GAAS QDS AT TWO GROWTH-TEMPERATURE REGIMES UNDER DIFFERENT BI SUPPLY CONDITIONS
Ben Fernandez, Teresa; Braza, Verónica; Fernández De Los Reyes, Daniel; Flores, Sara; González Robledo, David
Applied Surface Science 607, 154966 (2023).

135. FACILE FABRICATION OF HIGH-PERFORMANCE THERMOCHROMIC VO2-BASED FILMS ON SI FOR APPLICATION IN PHASE-CHANGE DEVICES
Santos, Antonio J.; Martín, Nicolás; Jiménez, Juan J.; Alcántara Puerto, Rodrigo; Margueron, Samuel; Casas, Andrea; Garcia Roja, Rafael; Morales Sánchez, Francisco Miguel;
Chemistry Of Materials 35, 4435-4448 (2023).

134. IDENTIFICATION OF THE SEGREGATION KINETICS OF ULTRATHIN GAASSB/GAAS FILMS USING ALAS MARKERS
Ben Fernandez, Teresa; Braza, Verónica; Fernández De Los Reyes, Daniel; Flores, Sara; González Robledo, David
Nanomaterials 13, 798 (2023).

133. LOW TEMPERATURE GROWTH OF NANOCRYSTALLINE DIAMOND: INSIGHT THERMAL PROPERTY
Millán Barba , Josué; Alcántara Puerto, Rodrigo; Araújo Gay, Daniel; Bakkali , Hicham; Dominguez De La Vega, Manuel; Gutiérrez Peinado, Marina; Guzmán De Villoria, Roberto; Lloret Vieira, Fernando; Mortet, Vincent; Taylor, Andrew
Diamond And Related Materials 137, 110070 (2023).

132. INFLUENCE OF THE CARBON FIBER LENGTH DISTRIBUTION IN POLYMER MATRIX COMPOSITES FOR LARGE FORMAT ADDITIVE MANUFACTURING VIA FUSED GRANULAR FABRICATION
D. Moreno Sánchez, Daniel; Delgado González, Francisco Javier; Molina, S. I.; Pedro Burgos Pintos; Sanz, Alberto
Polymers (2023).

131. INFLUENCE OF GOLD NANOPARTICLES SIZE FOR PHOTOCATALYTIC NO OXIDATION IN LOW LOADING AU/TIO2 CATALYSTS
Luna, M; Cruceira, A; Díaz, A.; Gatica, J.M.; Mosquera, MJ
ENVIRONMENTAL TECHNOLOGY & INNOVATION 30, 103070 (2023).

130. MULTIFUNCTIONAL SILANE-BASED SUPERHYDROPHOBIC/IMPREGNATION TREATMENTS FOR CONCRETE PRODUCING C-S-H GEL: VALIDATION ON MOCKUP SPECIMENS FROM EUROPEAN HERITAGE STRUCTURES
Zarzuela, R; Luna, M; Coneo, J.G.; Gemelli, G.; Andreouli, D.; Kaloidas, V.; Mosquera, MJ
Construction And Building Materials 367, 130258 (2023).

129. VALIDATION OF ALKOXYSILANE-BASED PROTECTIVE TREATMENTS FOR INCREASING SERVICE LIFE OF CEMENTITIOUS MATERIALS UNDER DIFFERENT WEATHERING CONDITIONS
Zarzuela, R; Luna, M; Gemelli, G.; Gonzalez-Coneo, J.; García-Lodeiro, I.; Blanco-Varela, M.T.; Mosquera, MJ
Developments In The Built Environment 15, 100216 (2023).

**2022**

128.- SELF-CLEANING DURABILITY ASSESSMENT OF $TiO_2/SiO_2$ PHOTOCATALYSTS COATED CONCRETE: EFFECT OF INDOOR AND OUTDOOR CONDITIONS ON THE PHOTOCATALYTIC ACTIVITY
Khannyra, S.; Luna, M.; Gil, M.L.A.; Addou, M.; Mosquera, M.J.;
Building and Environment, Vol.211, Issue -, pp – (2022)
DOI: 10.1016/j.buildenv.2021.108743
Factor de Impacto: JCR(6,456), SJR(1,736)
Posición en categoría JCR: 6/136 Q1 T1 D1 (Engineering, Civil)

127.- $MoS_2$-BASED NANOFLUIDS AS HEAT TRANSFER FLUID IN PARABOLIC TROUGH COLLECTOR TECHNOLOGY
Martínez-Merino, P.; Alcántara, R.; Gómez-Larrán, P.; Carrillo-Berdugo, I.; Navas, J.;
Renewable Energy, Vol.188, Issue -, pp 721-730
DOI: 10.1016/j.renene.2022.02.069
Factor de Impacto: JCR(8,001), SJR(1,825)
Posición en categoría JCR: 7/44 Q1 T1 D2 (Green & Sustainable Science & Technology)

126.- SPECTROSCOPIC ELLIPSOMETRY STUDY ON TUNING THE ELECTRICAL AND OPTICAL PROPERTIES OF ZR-DOPED ZNO THIN FILMS GROWN BY ATOMIC LAYER DEPOSITION
Bohórquez, C.; Bakkali, H.; Delgado, J.J.; Blanco, E.; Herrera, M.; Domínguez, M.;
ACS Applied Electronic Materials, Vol.4, Issue 3, pp 925-935 (2022)
DOI: 10.1021/acsaelm.1c01026
Factor de Impacto: JCR(3,314), SJR(1,379)
Posición en categoría JCR: 95/273 Q2 T2 D4 (Engineering, Electrical & Electronic)

125.- SYNTHESIS OF SILVER NANOCOMPOSITES FOR STEREOLITHOGRAPHY: IN SITU FORMATION OF NANOPARTICLES
Valencia, L.M.; Herrera, M.; de la Mata, M.; de León, A.S.; Delgado, F.J.; Molina, S.I.;
Polymers, Vol.14, Issue 6, pp – (2022)
DOI: 10.3390/polym14061168
Factor de Impacto: JCR(4,329), SJR(0,770)
Posición en categoría JCR: 18/88 Q1 T1 D3 (Polymer Science)

124.- APPLICATION OF ADVANCED (S)TEM METHODS FOR THE STUDY OF NANOSTRUCTURED POROUS FUNCTIONAL SURFACES: A FEW WORKING EXAMPLES
Santos, A.J.; Lacroix, B.; Maudet, F.; Paumier, F.; Hurand, S.; Dupeyrat, C.; Gómez, V.J.; Huffaker, D.L.; Girardeau, T.; García, R.; Morales, F.M.;
Materials Characterization, Vol.185, Issue -, pp – (2022)
DOI: 10.1016/j.matchar.2022.111741
Factor de Impacto: JCR(4,342), SJR(1,194)
Posición en categoría JCR: 120/335 Q2 T2 D4 (Materials Science, Multidisciplinary)

123.- SYNTHESIS AND CHARACTERISATION OF ASA-PEEK COMPOSITES FOR FUSED FILAMENT FABRICATION

Palacios-Ibáñez, B.; Relinque, J.J.; Moreno-Sánchez, D.; de León, A.S.; Delgado, F.J.; Escobar-Galindo, R.; Molina, S.I.;
Polymers, Vol.14, Issue 3, pp – (2022)
DOI: 10.3390/polym14030496
Factor de Impacto: JCR(4,329), SJR(0,770)
Posición en categoría JCR: 18/88 Q1 T1 D3 (Polymer Science)

122.- INTERFACE CHEMISTRY EFFECTS IN NANOFLUIDS: EXPERIMENTAL AND COMPUTATIONAL STUDY OF OIL-BASED NANOFLUIDS WITH GOLD NANOPLATES
Carrillo-Berdugo, I.; Sampalo-Guzmán, J.; Grau-Crespo, R.; Zorrilla, D.; Navas, J.;
Journal of Molecular Liquids, Vol.362, Issue -, pp – (2022)
DOI: 10.1016/j.molliq.2022.119762
Factor de Impacto: JCR(6,165), SJR(0,929)
Posición en categoría JCR: 4/37 Q1 T1 D2 (Physics, Atomic, Molecular & Chemical)

121.- INDUCED DAMAGE DURING STEM-EELS ANALYSES ON ACRYLIC-BASED MATERIALS FOR STEREOLITHOGRAPHY
Valencia, L.M.; de la Mata, M.; Herrera, M.; Delgado, F.J.; Hernández-Saz, J.; Molina, S.I.;
Polymer Degradation and Stability, Vol.203, Issue -, pp – (2022)
DOI: 10.1016/j.polymdegradstab.2022.110044
Factor de Impacto: JCR(5,030), SJR(0,925)
Posición en categoría JCR: 12/88 Q1 T1 D2 (Polymer Science)

120.- PHOTOCATALYTIC $TIO_2$ NANOSHEETS-$SIO_2$ COATINGS ON CONCRETE AND LIMESTONE: AN ENHANCEMENT OF DE-POLLUTING AND SELF-CLEANING PROPERTIES BY NANOPARTICLE DESIGN
Luna, M.; Delgado, J.J.; Romero, I.; Montini, T.; Almoraima Gil, M.L.; Martínez-López, J.; Fornasiero, P.; Mosquera, M.J.;
Construction and Building Materials, Vol.338, Issue -, pp – (2022)
DOI: 10.1016/j.conbuildmat.2022.127349
Factor de Impacto: JCR(6,141), SJR(1,662)
Posición en categoría JCR: 86/335 Q2 T1 D3 (Materials Science, Multidisciplinary)

119.- QUANTITATIVE EVALUATION OF SUPPORTED CATALYSTS KEY PROPERTIES FROM ELECTRON TOMOGRAPHY STUDIES: ASSESSING ACCURACY USING MATERIAL-REALISTIC 3D-MODELS
Bouzaine, A.; Muñoz-Ocaña, J.M.; Rodríguez-Chia, A.; Hungría, A.B.; Calvino, J.J.; López-Haro, M.;
Topics in Catalysis, Vol.-, Issue -, pp – (2022)
DOI: 10.1007/s11244-022-01634-1
Factor de Impacto: JCR(2,910), SJR(0,732)
Posición en categoría JCR: 32/74 Q2 T2 D5 (Chemistry, Applied)

118.- DYE DECOMPOSITION AND AIR DE-POLLUTION PERFORMANCE OF $TIO_2$/$SIO_2$ AND N-$TIO_2$/$SIO_2$ PHOTOCATALYSTS COATED ON PORTLAND CEMENT MORTAR SUBSTATES
Khannyra, S.; Gil, M.L.A.; Addou, M.; Mosquera, M.J.;

Environmental Science and Pollution Research, Vol.-, Issue -, pp – (2022)
DOI: 10.1007/s11356-022-20228-8
Factor de Impacto: JCR(4,223), SJR(0,845)
Posición en categoría JCR: 91/274 Q2 T1 D4 (Environmental Sciences)

117.- TRACKING THE OPTICAL CONSTANTS OF POROUS VANADIUM DIOXIDE THIN FILMS DURING METAL–INSULATOR TRANSITION: INFLUENCE OF PROCESSING CONDITIONS ON THEIR APPLICATION IN SMART GLASSES
Outón, J.; Blanco, E.; Domínguez, M.; Bakkali, H.; Gonzalez-Leal, J.M.; Delgado, J.J.; Ramírez-del-Solar, M.;
Applied Surface Science, Vol.580, Issue -, pp 152228(1)-152228(14)
DOI: 10.1016/j.apsusc.2021.152228
Factor de Impacto: JCR(6,707), SJR(1,295)
Posición en categoría JCR: 30/160 Q1 T1 D2 (Physics, Applied)

116.- CERAMIC POLYANILINE-CARBON COMPOSITE OBTAINED BY ULTRASOUND-ASSISTED SOL–GEL ROUTE: ELECTROCHEMICAL PERFORMANCE TOWARDS ENVIRONMENTAL POLLUTANTS
López-Iglesias, D.; Fanelli, F.; Marchi, L.; Alcántara, R.; Cocchi, M.; Cubillana-Aguilera, L.; Palacios-Santander, J.M.; García-Guzmán, J.J.;
Journal of Electroanalytical Chemistry, Vol.905, Issue -, pp 1159712 (1)-1159712 (12) (2022)
DOI: 10.1016/j.jelechem.2021.115971
Factor de Impacto: JCR(4,464), SJR(0,845)
Posición en categoría JCR: 20/83 Q1 T1 D3 (Chemistry, Analytical)

115.- TRANSPORT MECHANISM IN O-TERMINATED DIAMOND/$ZrO_2$ BASED MOSCAPS
Soto, B.; Cañas, J.; Villar, M.P.; Araujo, D.; Pernot, J.;
Diamond and Related Materials, Vol.121, Issue -, pp 108745(1)-108745(7) (2022)
DOI: 10.1016/j.diamond.2021.108745
Factor de Impacto: JCR(3,315), SJR(0,651)
Posición en categoría JCR: 53/160 Q2 T1 D4 (Physics, Applied)

**2021**

114.- INTERFACIAL MOLECULAR LAYERING ENHANCES SPECIFIC HEAT OF NANOFLUIDS: EVIDENCE FROM MOLECULAR DYNAMICS
I. Carrillo-Berdugo, R. Grau-Crespo, D. Zorrilla, J. Navas
Journal of Molecular Liquids, 325 (2021)
DOI: http://doi.org/10.1016/j.molliq.2020.115217
Factor de Impacto: JCR(6,165), SJR(0,929)
Posición en categoría JCR: 4/37 Q1 T1 D2 (Physics, Atomic, Molecular & Chemical)

113.- COMPREHENSIVE NANOSCOPIC ANALYSIS OF TUNGSTEN CARBIDE/OXYGENATED-DIAMOND CONTACTS FOR SCHOTTKY BARRIER DIODES
G. Alba, D. Leinen, M.P. Villar, R. Alcántara, J.C. Piñero, A. Fiori, T. Teraji, D. Araújo
Applied Surface Science, 537 (2021)

DOI: http://doi.org/10.1016/j.apsusc.2020.147874
Factor de Impacto: JCR(6,707), SJR(1,295)
Posición en categoría JCR: 1/21 Q1 T1 D1 (Materials Science, Coatings & Films)

112.- EVALUATION OF DIFFERENT CAPPING STRATEGIES IN THE INAS/GAAS QD SYSTEM: COMPOSITION, SIZE AND QD DENSITY FEATURES
D. González, S. Flores, N. Ruiz-Marín, D.F. Reyes, L. Stanojević, A.D. Utrilla, A. Gonzalo, A. Gallego Carro, J.M. Ulloa, T. Ben
Applied Surface Science, 537 (2021)
DOI: http://doi.org/10.1016/j.apsusc.2020.148062
Factor de Impacto: JCR(6,707), SJR(1,295)
Posición en categoría JCR: 1/21 Q1 T1 D1 (Materials Science, Coatings & Films)

111.- OPTICAL AND TRANSPORT PROPERTIES OF METAL-OIL NANOFLUIDS FOR THERMAL SOLAR INDUSTRY: EXPERIMENTAL CHARACTERIZATION, PERFORMANCE ASSESSMENT, AND MOLECULAR DYNAMICS INSIGHTS
I. Carrillo-Berdugo, P. Estellé, E. Sani, L. Mercatelli, R. Grau-Crespo, D. Zorrilla, J. Navas
ACS Sustainable Chemistry and Engineering, 9 (11), 4194-4205 (2021)
DOI: http://doi.org/10.1021/acssuschemeng.1c00053
Factor de Impacto: JCR(8,198), SJR(1,878)
Posición en categoría JCR: 14/143 Q1 T1 D1 (Engineering, Chemical)

110.- SILVER NANOSTRUCTURES - POLY(3,4-ETHYLENEDIOXYTHIOPHENE) SENSING MATERIAL PREPARED BY SINUSOIDAL VOLTAGE PROCEDURE FOR DETECTION OF ANTIOXIDANTS
J.J. García-Guzmán, D. López-Iglesias, L. Cubillana-Aguilera, D. Bellido-Milla, J.M. Palacios-Santander, M. Marin, S.D. Grigorescu, C. Lete, S. Lupu
Electrochimica Acta, 393, 139082(1)-139082(11) (2021)
DOI: http://doi.org/10.1016/j.electacta.2021.139082
Factor de Impacto: JCR(6,901), SJR(1,534)
Posición en categoría JCR: 8/29 Q2 T1 D3 (Electrochemistry)

109.- COMPATIBILITY, EFFECTIVENESS AND SUSCEPTIBILITY TO DEGRADATION OF ALKOXYSILANE-BASED CONSOLIDATION TREATMENTS ON A CARBONATE STONE
G.M.C. Gemelli, R. Zarzuela, F. Fernandez, M.J. Mosquera
Journal of Building Engineering, 42, 102840(1)-102840(17) (2021)
DOI: http://doi.org/10.1016/j.jobe.2021.102840
Factor de Impacto: JCR(5,318), SJR(0,974)
Posición en categoría JCR: 13/136 Q1 T1 D1 (Engineering, Civil)

108.- E-TONGUES/NOSES BASED ON CONDUCTING POLYMERS AND COMPOSITE MATERIALS: EXPANDING THE POSSIBILITIES IN COMPLEX ANALYTICAL SENSING
A. Sierra-Padilla, J.J. García-Guzmán, D. López-Iglesias, J.M. Palacios-Santander, L. Cubillana-Aguilera
Sensors, 21 (15), 4976(1)-4976(26) (2021)
DOI: http://doi.org/10.3390/s21154976
Factor de Impacto: JCR(3,576), SJR(0,636)

Posición en categoría JCR: 14/64 Q1 T1 D3 (Instruments & Instrumentation)

107.- Cu-TiO2/SiO2 PHOTOCATALYSTS FOR CONCRETE-BASED BUILDING MATERIALS: SELF-CLEANING AND AIR DE-POLLUTION PERFORMANCE
S. Khannyra, M.J. Mosquera, M. Addou, M.L.A. Gil
Construction and Building Materials, 313, 125419(1)-125419(15) (2021)
DOI: http://doi.org/10.1016/j.conbuildmat.2021.125419
Factor de Impacto: JCR(6,141), SJR(1,662)
Posición en categoría JCR: 7/136 Q1 T1 D1 (Engineering, Civil)

106.- ALKOXYSILANE-BASED CONSOLIDATION TREATMENTS: LABORATORY AND 3-YEARS IN-SITU ASSESSMENT TESTS ON BIOCALCARENITE STONE FROM ROMAN THEATRE (CÁDIZ)
G.M.C. Gemelli, R. Zarzuela, F. Alarcón-Castellano, M.J. Mosquera, M.L.A. Gil
Construction and Building Materials, 312, 125398(1)-125398(14) (2021)
DOI: http://doi.org/10.1016/j.conbuildmat.2021.125398
Factor de Impacto: JCR(6,141), SJR(1,662)
Posición en categoría JCR: 7/136 Q1 T1 D1 (Engineering, Civil)

105.- CONTROLLED GRAIN-SIZE THERMOCHROMIC VO2 COATINGS BY THE FAST OXIDATION OF SPUTTERED VANADIUM OR VANADIUM OXIDE FILMS DEPOSITED AT GLANCING ANGLES
A.J. Santos, B. Lacroix, M. Domínguez, R. García, N. Martin, F.M. Morales
Surfaces and Interfaces, 27, 101581(1)-101581(13) (2021)
DOI: http://doi.org/10.1016/j.surfin.2021.101581
Factor de Impacto: JCR(4,837), SJR(0,712)
Posición en categoría JCR: 4/21 Q1 T1 D2 (Materials Science, Coatings & Films)

104.- A NOVEL ROUTE FOR THE EASY PRODUCTION OF THERMOCHROMIC VO2 NANOPARTICLES
A.J. Santos, M. Escanciano, A. Suárez-Llorens, M. Pilar Yeste, F.M. Morales
Chemistry - A European Journal, 27 (67), 16662-16669 (2021)
DOI: http://doi.org/10.1002/chem.202102566
Factor de Impacto: JCR(5,236), SJR(1,687)
Posición en categoría JCR: 52/179 Q2 T1 D3 (Chemistry, Multidisciplinary)

103.- ALKYLSILOXANE/ALKOXYSILANE SOLS AS HYDROPHOBIC TREATMENTS FOR CONCRETE: A COMPARATIVE STUDY OF BULK VS SURFACE APPLICATION
J. González-Coneo, R. Zarzuela, F. Elhaddad, L.M. Carrascosa, M.L.A. Gil, M.J. Mosquera
Journal of Building Engineering, 46, 103729(1)-103729(16) (2021)
DOI: http://doi.org/10.1016/j.jobe.2021.103729
Factor de Impacto: JCR(5,318), SJR(0,974)
Posición en categoría JCR: 13/136 Q1 T1 D1 (Engineering, Civil)

102.- ENHANCED THERMOPHYSICAL PROPERTIES IN SPINEL CuFe2O4-BASED NANOFLUIDS FOR CONCENTRATED SOLAR POWER
T. Aguilar, I. Carrillo-Berdugo, R. Alcántara, J. Navas

International Journal of Energy Research, 1-11 (2021)
DOI: http://doi.org/10.1002/er.7484
Factor de Impacto: JCR(5,164), SJR(0,808)
Posición en categoría JCR: 1/34 Q1 T1 D1 (Nuclear Science & Technology)

101.- ATOMICALLY RESOLVED TOMOGRAPHIC RECONSTRUCTION OF NANOPARTICLES FROM SINGLE PROJECTION: INFLUENCE OF AMORPHOUS CARBON SUPPORT
P. Banerjee, C. Roy, S.K. De, A.J. Santos, F.M. Morales, S. Bhattacharyya
Ultramicroscopy, 221, 113177[1]-146312[15] (2021)
DOI: http://doi.org/10.1016/j.ultramic.2020.113177
Factor de Impacto: JCR(2,689), SJR(1,29)
Posición en categoría JCR: 4/9 Q2 T2 D5 (Microscopy)

**2020**

100.- WSe2 NANOSHEETS SYNTHESIZED BY A SOLVOTHERMAL PROCESS AS ADVANCED NANOFLUIDS FOR THERMAL SOLAR ENERGY
P. Martínez-Merino, E. Sani, L. Mercatelli, R. Alcántara, J. Navas
ACS Sustainable Chemistry and Engineering, 8 (3), 1627-1636 (2020)
DOI: http://doi.org/10.1021/acssuschemeng.9b06489
Factor de Impacto: JCR(8,198), SJR(1,878)

99.- USE OF Au/N-TiO2/SiO2 PHOTOCATALYSTS IN BUILDING MATERIALS WITH NO DEPOLLUTING ACTIVITY M. Luna, J.M. Gatica, H. Vidal, M.J. Mosquera
Journal of Cleaner Production, 243 (1), 118633[1]-118633[11] (2020)
DOI: http://doi.org/10.1016/j.jclepro.2019.118633
Factor de Impacto: JCR(9,297), SJR(1,937)
Posición en categoría JCR: 3/44 Q1 T1 D1 (Green & Sustainable Science & Technology)

98.- THE EFFECT OF A COMPLEX A-SITE CATION AND MIXED HALIDES IN THE EMISSION PROPERTIES OF PEROVSKITE QUANTUM DOTS
J.J. Gallardo, M. Rodríguez-Fernández, E. Blanco, J. Outón, J. Navas
Journal of Molecular Liquids, 314 (9:2020), 113674[1]-113674[8] (2020)
DOI: http://doi.org/10.1016/j.molliq.2020.113674
Factor de Impacto: JCR(6,165), SJR(0,929)
Posición en categoría JCR: 4/37 Q1 T1 D2 (Physics, Atomic, Molecular & Chemical)

97.- ROLE OF SB ON THE VERTICAL-ALIGNMENT OF TYPE-II STRAIN-COUPLED INAS/GAASSB MULTI QUANTUM DOTS STRUCTURES
N. Ruiz-Marín, D.F. Reyes, V. Braza, S. Flores, L. Stanojević, A. Gonzalo, J.M. Ulloa, T. Ben, D. González Journal of Alloys and Compounds, 832 (8:2020), 154914[1]-154914[7] (2020)
DOI: http://doi.org/10.1016/j.jallcom.2020.154914
Factor de Impacto: JCR(5,316), SJR(1,112)
Posición en categoría JCR: 6/80 Q1 T1 D1 (Metallurgy & Metallurgical Engineering)

96.- DEVELOPMENT OF CARBON FIBER ACRYLONITRILE STYRENE ACRYLATE COMPOSITE FOR LARGE FORMAT ADDITIVE MANUFACTURING
D.M. Sánchez, M. de la Mata, F.J. Delgado, V. Casal, S.I. Molina
Materials and Design, 191 (6:2020), 108577[1]-108577[10] (2020)
DOI: http://doi.org/10.1016/j.matdes.2020.108577
Factor de Impacto: JCR(7,991), SJR(1,842)
Posición en categoría JCR: 58/335 Q1 T1 D2 (Materials Science, Multidisciplinary)

95.- SURFACE STATES OF (100) O-TERMINATED DIAMOND: TOWARDS OTHER 1 × 1:O RECONSTRUCTION MODELS
G. Alba, M. Pilar Villar, R. Alcántara, J. Navas, D. Araújo
Nanomaterials, 10 (6), 1-15 (2020)
DOI: http://doi.org/10.3390/nano10061193
Factor de Impacto: JCR(5,076), SJR(0,919)
Posición en categoría JCR: 35/160 Q1 T1 D3 (Physics, Applied)

94.- THE ROLE OF THE INTERACTIONS AT THE TUNGSTEN DISULPHIDE SURFACE IN THE STABILITY AND ENHANCED THERMAL PROPERTIES OF NANOFLUIDS WITH APPLICATION IN SOLAR THERMAL ENERGY
P. Martínez-Merino, A. Sánchez-Coronilla, R. Alcántara, E.I. Martín, I. Carrillo-Berdugo, R. Gómez-Villarejo, J. Navas
Nanomaterials, 10 (5), 970[1]-970[16] (2020)
DOI: http://doi.org/10.3390/nano10050970
Factor de Impacto: JCR(5,076), SJR(0,919)
Posición en categoría JCR: 35/160 Q1 T1 D3 (Physics, Applied)

93.- A SIMPLE, LONG-LASTING TREATMENT FOR CONCRETE BY COMBINING HYDROPHOBIC PERFORMANCE WITH A PHOTOINDUCED SUPERHYDROPHILIC SURFACE FOR EASY REMOVAL OF OIL POLLUTANTS
L.A.M. Carrascosa, R. Zarzuela, N. Badreldin, M.J. Mosquera
ACS applied materials & interfaces, 12 (17), 19974-19987 (2020)
DOI: http://doi.org/10.1021/acsami.0c03576
Factor de Impacto: JCR(9,229), SJR(2,535)
Posición en categoría JCR: 44/335 Q1 T1 D2 (Materials Science, Multidisciplinary)

92.- DIAMOND/Γ-ALUMINA BAND OFFSET DETERMINATION BY XPS
J. Cañas, G. Alba, D. Leinen, F. Lloret, M. Gutierrez, D. Eon, J. Pernot, E. Gheeraert, D. Araújo
Applied Surface Science, 535 (1), 146301[1]-146301[8] (2020)
DOI: http://doi.org/10.1016/j.apsusc.2020.146301
Factor de Impacto: JCR(6,707), SJR(1,295)
Posición en categoría JCR: 1/21 Q1 T1 D1 (Materials Science, Coatings & Films)

91.- FAST ELECTROANALYTICAL DETERMINATION OF CANNABIDIOL AND CANNABINOL IN AQUEOUS SOLUTION USING SONOGEL-CARBON-PEDOT DEVICES
D. López-Iglesias, J.J. García-Guzmán, C. Zanardi, J.M. Palacios-Santander, L. Cubillana-Aguilera, L. Pigani Journal of Electroanalytical Chemistry, 878 (12:2020), 114591[1]-

114591[8] (2020)
DOI: http://doi.org/10.1016/j.jelechem.2020.114591
Factor de Impacto: JCR(4,464), SJR(0,845)
Posición en categoría JCR: 20/83 Q1 T1 D3 (Chemistry, Analytical)

90.- THE EFFECT OF OBLIQUE-ANGLE SPUTTERING ON LARGE AREA DEPOSITION: A UNIDIRECTIONAL ULTRATHIN AU PLASMONIC FILM GROWTH DESIGN
H. Bakkali, E. Blanco, M. Domínguez, M.B. de la Mora, C. Sánchez-Aké, M. Villagrán-Muniz, D.S. Schmool, B. Berini, S.E. Lofland
Nanotechnology, 31 (44), 445701[1]-445701[10] (2020)
DOI: http://doi.org/10.1088/1361-6528/aba65b
Factor de Impacto: JCR(3,874), SJR(0,926)
Posición en categoría JCR: 44/160 Q2 T1 D3 (Physics, Applied)

89.- STUDY OF EARLY STAGES IN THE GROWTH OF BORON-DOPED DIAMOND ON CARBON FIBERS
J. Millán-Barba, M. Gutiérrez, F. Lloret, R.G. de Villoria, R. Alcántara, K. Haenen, D. Araújo
Physica Status Solidi (A) Applications and Materials Science, 218 (5), 1-6 (2020)
DOI: http://doi.org/10.1002/pssa.202000284
Factor de Impacto: JCR(1,981), SJR(0,532)
Posición en categoría JCR: 100/160 Q3 T2 D7 (Physics, Applied)

88.- IN SITU APPLICATION OF A CONSOLIDANT ON THE ROMAN THEATRE OF CÁDIZ
G.M.C. Gemelli, M.J. Mosquera, M. Galán, A. Pelaez, J.M. Perez, M.L.A. Gil Montero
Science and Digital Technology for Cultural Heritage & Interdisciplinary Approach to Diagnosis, Vulnerability, Risk Assessment and Graphic Information Models - Proceedings of the 4th International Congress Science and Technology for the conservation of cultural heritage, TECHNOHERITAGE 2019, 1 (1), 353-357 (2020)
DOI: http://doi.org/10.1201/9780429345470-67
Factor de Impacto: No indexada
Posición en categoría JCR: No indexada.

87.- HYDROXYL GROUPS INDUCE BIOACTIVITY IN SILICA/CHITOSAN AEROGELS DESIGNED FOR BONE TISSUE ENGINEERING. IN VITRO MODEL FOR THE ASSESSMENT OF OSTEOBLASTS BEHAVIOR
A. Perez-Moreno, M.d.l.V. Reyes-Peces, D.M. de los Santos, G. Pinaglia-Tobaruela, E. de la Orden, J.I. Vilches- Pérez, M. Salido, M. Piñero, N. de la Rosa-Fox
Polymers, 12 (12), 1-22 (2020)
DOI: http://doi.org/10.3390/polym12122802
Factor de Impacto: JCR(4,329), SJR(0,77)
Posición en categoría JCR: 18/88 Q1 T1 D3 (Polymer Science)

86.- INSIGHTS INTO THE STABILITY AND THERMAL PROPERTIES OF WSE2-BASED NANOFLUIDS FOR CONCENTRATING SOLAR POWER PREPARED BY LIQUID PHASE EXFOLIATION
P. Martínez-Merino, A. Sánchez-Coronilla, R. Alcántara, E.I. Martín, J. Navas

Journal of Molecular Liquids, 319 (12:2020), 114333[1]-114333[10] (2020)
DOI: http://doi.org/10.1016/j.molliq.2020.114333
Factor de Impacto: JCR(6,165), SJR(0,929)
Posición en categoría JCR: 4/37 Q1 T1 D2 (Physics, Atomic, Molecular & Chemical)

85.- CHITOSAN-GPTMS-SILICA HYBRID MESOPOROUS AEROGELS FOR BONE TISSUE ENGINEERING
M.V. Reyes-Peces, A. Pérez-Moreno, D.M. De-Los-santos, M.D.M. Mesa-Díaz, G. Pinaglia-Tobaruela, J.I. Vilches-Pérez, R. Fernández-Montesinos, M. Salido, N. de la Rosa-Fox, M. Piñero
Polymers, 12 (11), 1-24 (2020)
DOI: http://doi.org/10.3390/polym12112723
Factor de Impacto: JCR(4,329), SJR(0,77)
Posición en categoría JCR: 18/88 Q1 T1 D3 (Polymer Science)

84.- UNDERSTANDING THE SPECIFIC HEAT ENHANCEMENT IN METAL-CONTAINING NANOFLUIDS FOR THERMAL ENERGY STORAGE: EXPERIMENTAL AND AB INITIO EVIDENCE FOR A STRONG INTERFACIAL LAYERING EFFECT
I. Carrillo-Berdugo, S.D. Midgley, R. Grau-Crespo, D. Zorrilla, J. Navas
ACS Applied Energy Materials, 3 (9), 9246-9256 (2020)
DOI: http://doi.org/10.1021/acsaem.0c01556
Factor de Impacto: JCR(6,024), SJR(1,833)
Posición en categoría JCR: 87/335 Q2 T1 D3 (Materials Science, Multidisciplinary)

83.- DIVERGENCE OF THE DIELECTRIC CONSTANT IN ULTRATHIN GRANULAR METAL FILMS NEAR THE PERCOLATION THRESHOLD
H. Bakkali, E. Blanco, S.E. Lofland, M. Domínguez
New Journal of Physics, 22 (8), 083018[1]-083018[8] (2020)
DOI: http://doi.org/10.1088/1367-2630/aba021
Factor de Impacto: JCR(3,729), SJR(1,584)
Posición en categoría JCR: 22/85 Q2 T1 D3 (Physics, Multidisciplinary)

82.- SIMULTANEOUS OPTICAL AND ELECTRICAL CHARACTERIZATION OF GAN NANOWIRE ARRAYS BY MEANS OF VIS-IR SPECTROSCOPIC ELLIPSOMETRY
A.J. Santos, B. Lacroix, E. Blanco, S. Hurand, V.J. Gómez, F. Paumier, T. Girardeau, D.L. Huffaker, R. García, F.M. Morales
Journal of Physical Chemistry C, 124 (2020), 1535-1543 (2020)
DOI: http://doi.org/10.1021/acs.jpcc.9b10556
Factor de Impacto: JCR(4,126), SJR(1,401)
Posición en categoría JCR: 124/335 Q2 T2 D4 (Materials Science, Multidisciplinary)

81.- FORMATION MECHANISMS OF AGGLOMERATIONS IN HIGH-DENSITY InAs/GaAs QUANTUM DOT MULTI-LAYER STRUCTURES
N. Ruiz-Marín, D.F. Reyes, V. Braza, S. Flores, A. Gonzalo, J.M. Ulloa, T. Ben, D. González
Applied Surface Science, 508 (4:2020), 145218[1]-145218[7] (2020)
DOI: http://doi.org/10.1016/j.apsusc.2019.145218

Factor de Impacto: JCR(6,707), SJR(1,295)
Posición en categoría JCR: 1/21 Q1 T1 D1 (Materials Science, Coatings & Films)

80.- PRODUCING C-S-H GEL BY REACTION BETWEEN SILICA OLIGOMERS AND PORTLANDITE: A PROMISING APPROACH TO REPAIR CEMENTITIOUS MATERIALS
R. Zarzuela, M. Luna, L.M. Carrascosa, M.P. Yeste, I. Garcia-Lodeiro, M.T. Blanco-Varela, M.A. Cauqui, J.M. Rodríguez-Izquierdo, M.J. Mosquera
Cement and Concrete Research, 130 (4:2020), 106008[1]-106008[15] (2020)
DOI: http://doi.org/10.1016/j.cemconres.2020.106008
Factor de Impacto: JCR(10,933), SJR(4,628)
Posición en categoría JCR: 2/66 Q1 T1 D1 (Construction & Building Technology)

79.- NOVEL WS2-BASED NANOFLUIDS FOR CONCENTRATING SOLAR POWER: PERFORMANCE CHARACTERIZATION AND MOLECULAR-LEVEL INSIGHTS
P. Martínez-Merino, S.D. Midgley, E.I. Martín, P. Estellé, R. Alcántara, A. Sánchez-Coronilla, R. Grau-Crespo, J. Navas
ACS applied materials & interfaces, 12 (5), 5793-5804 (2020)
DOI: http://doi.org/10.1021/acsami.9b18868
Factor de Impacto: JCR(9,229), SJR(2,535)
Posición en categoría JCR: 44/335 Q1 T1 D2 (Materials Science, Multidisciplinary)

78.- BORON NITRIDE NANOTUBES-BASED NANOFLUIDS WITH ENHANCED THERMAL PROPERTIES FOR USE AS HEAT TRANSFER FLUIDS IN SOLAR THERMAL APPLICATIONS
R. Gómez-Villarejo, P. Estellé, J. Navas
Solar Energy Materials and Solar Cells, 205 (2:2020), 110266[1]-110266[13] (2020)
DOI: http://doi.org/10.1016/j.solmat.2019.110266
Factor de Impacto: JCR(7,267), SJR(1,839)
Posición en categoría JCR: 28/160 Q1 T1 D2 (Physics, Applied)

**2019**

77.- ASSESSMENT OF THE POLYPHENOL INDICES AND ANTIOXIDANT CAPACITY FOR BEERS AND WINES USING A TYROSINASE-BASED BIOSENSOR PREPARED BY SINUSOIDAL CURRENT METHOD
J.J. García-Guzmán, D. López-Iglesias, L. Cubillana-Aguilera, C. Lete, S. Lupu, J.M. Palacios-Santander, D. Bellido-Milla
Sensors, 19 (66), 1-14 (2019)
DOI: http://doi.org/10.3390/s19010066
Factor de Impacto: JCR(3,275), SJR(0,653)
Posición en categoría JCR: 15/64 Q1 T1 D3 (Instruments & Instrumentation)

76.- ONE-POT SYNTHESIS OF Au/N-TiO2 PHOTOCATALYSTS FOR ENVIRONMENTAL APPLICATIONS: ENHANCEMENT OF DYES AND NOX PHOTODEGRADATION
M. Luna, J.M. Gatica, H. Vidal, M.J. Mosquera
Powder Technology, 355 , 793-807 (2019)
DOI: http://doi.org/10.1016/j.powtec.2019.07.102
Factor de Impacto: JCR(4,142), SJR(0,998)
Posición en categoría JCR: 31/143 Q1 T1 D3 (Engineering, Chemical)

75.- CATALYTIC PERFORMANCE OF Ni/CeO2/X-ZrO2 (X = Ca, Y) CATALYSTS IN THE AQUEOUS-PHASE REFORMING OF METHANOL
D. Goma, J.J. Delgado, L. Lefferts, J. Faria, J.J. Calvino, M.Á. Cauqui
Nanomaterials, 9 (11 ), 1582[1]-1582[18] (2019)
DOI: http://doi.org/10.3390/nano9111582
Factor de Impacto: JCR(4,324), SJR(0,858)
Posición en categoría JCR: 89/314 Q2 T1 D3 (Materials Science, Multidisciplinary)

74.- STABILITY AND THERMAL PROPERTIES STUDY OF METAL CHALCOGENIDE-BASED NANOFLUIDS FOR CONCENTRATING SOLAR POWER
P. Martínez-Merino, T. Aguilar, J.J. Gallardo, I. Carrillo-Berdugo, R. Gómez-Villarejo, M. Rodríguez- Fernández, J. Navas
Energies, 12 (24 ), 4632[1]-4632[11] (2019)
DOI: http://doi.org/10.3390/en12244632
Factor de Impacto: JCR(2,702), SJR(0,635)
Posición en categoría JCR: 63/112 Q3 T2 D6 (Energy & Fuels)

73.- ORMOSILS LOADED WITH SiO2 NANOPARTICLES FUNCTIONALIZED WITH Ag AS MULTIFUNCTIONAL SUPERHYDROPHOBIC/BIOCIDAL/CONSOLIDANT TREATMENTS FOR BUILDINGS CONSERVATION
R. Zarzuela, M. Carbú, M.L.A. Gil, J.M. Cantoral, M.J. Mosquera
Nanotechnology, 30 (34) (2019)
DOI: http://doi.org/10.1088/1361-6528/ab1ff0
Factor de Impacto: JCR(3,551), SJR(1,026)
Posición en categoría JCR: 40/154 Q2 T1 D3 (Physics, Applied)

72.- INTERFACE-INSPIRED FORMULATION AND MOLECULAR-LEVEL PERSPECTIVES ON HEAT CONDUCTION AND ENERGY STORAGE OF NANOFLUIDS
I. Carrillo-Berdugo, D. Zorrilla, J. Sánchez-Márquez, T. Aguilar, J.J. Gallardo, R. Gómez-Villarejo, R. Alcántara, C. Fernández-Lorenzo, J. Navas
Scientific Reports, 9 (1), 7595[1]-7595[13] (2019)
DOI: http://doi.org/10.1038/s41598-019-44054-0
Factor de Impacto: JCR(3,998), SJR(1,341)
Posición en categoría JCR: 17/71 Q1 T1 D3 (Multidisciplinary Sciences)

71.- SURFACE OXIDATION OF AMORPHOUS Si AND Ge SLANTED COLUMNAR AND MESOPOROUS THIN FILMS: EVIDENCE, SCRUTINY AND LIMITATIONS FOR INFRARED OPTICS
A.J. Santos, B. Lacroix, F. Maudet, A. Corvisier, F. Paumier, C. Dupeyrat, T. Girardeau, R. García, F.M. Morales
Applied Surface Science, 493, 807-817 (2019)
DOI: http://doi.org/10.1016/j.apsusc.2019.07.064
Factor de Impacto: JCR(6,182), SJR(1,23)
Posición en categoría JCR: 1/21 Q1 T1 D1 (Materials Science, Coatings & Films)

70.- Au-TiO2/SiO 2 PHOTOCATALYSTS FOR BUILDING MATERIALS: SELF-CLEANING AND DE-POLLUTING PERFORMANCE
M. Luna, M.J. Mosquera, H. Vidal, J.M. Gatica
Building and Environment, 164, 106347[1]-106347[9] (2019)
DOI: http://doi.org/10.1016/j.buildenv.2019.106347
Factor de Impacto: JCR(4,971), SJR(1,871)
Posición en categoría JCR: 4/134 Q1 T1 D1 (Engineering, Civil)

69.- MODELLING OF BISMUTH SEGREGATION IN InAsBi/InAs SUPERLATTICES: DETERMINATION OF THE EXCHANGE ENERGIES
S. Flores, D.F. Reyes, V. Braza, R.D. Richards, F. Bastiman, T. Ben, N. Ruiz-Marín, J.P.R. David, D. González Applied Surface Science, 485, 29-34 (2019)
DOI: http://doi.org/10.1016/j.apsusc.2019.04.188
Factor de Impacto: JCR(6,182), SJR(1,23)
Posición en categoría JCR: 1/21 Q1 T1 D1 (Materials Science, Coatings & Films)

68.- Au-TiO2/SiO2 PHOTOCATALYSTS WITH NOX DEPOLLUTING ACTIVITY: INFLUENCE OF GOLD PARTICLE SIZE AND LOADING
M. Luna, J.M. Gatica, H. Vidal, M.J. Mosquera
Chemical Engineering Journal, 368, 417-427 (2019)
DOI: http://doi.org/10.1016/j.cej.2019.02.167
Factor de Impacto: JCR(10,652), SJR(2,315)
Posición en categoría JCR: 4/143 Q1 T1 D1 (Engineering, Chemical)

67.- EFFECT OF THE THERMAL ANNEALING AND THE NOMINAL COMPOSITION IN THE ELEMENTAL DISTRIBUTION OF InxAl1−xAsγSb1−γ FOR TRIPLE JUNCTION SOLAR CELLS
J. Hernández-Saz, M. Herrera, J. Pizarro, M. Gonzalez, J. Abell, R. Walters, P.L. Galindo, S. Duguay, S.I. Molina
Journal of Alloys and Compounds, 1021-1027 (2019)
DOI: http://doi.org/10.1016/j.jallcom.2019.04.119
Factor de Impacto: JCR(4,65), SJR(1,055)
Posición en categoría JCR: 8/79 Q1 T1 D2 (Metallurgy & Metallurgical Engineering)

66.- IMPROVING THE ACTIVITY AND STABILITY OF YSZ-SUPPORTED GOLD POWDER CATALYST BY MEANS OF ULTRATHIN, COHERENT, CERIA OVERLAYERS. ATOMIC SCALE STRUCTURAL INSIGHTS
R. Manzorro, W.E. Celín, J.A. Pérez-Omil, J.J. Calvino, S. Trasobares
ACS Catalysis, 9 (6), 5157-5170 (2019)
DOI: http://doi.org/10.1021/acscatal.8b04412
Factor de Impacto: JCR(12,35), SJR(4,633)
Posición en categoría JCR: 12/159 Q1 T1 D1 (Chemistry, Physical)

65.- NITROGEN MAPPING FROM ADF IMAGING ANALYSIS IN QUATERNARY DILUTE NITRIDE SUPERLATTICES
N. Ruiz-Marín, D.F. Reyes, V. Braza, A. Gonzalo, T. Ben, S. Flores, A.D. Utrilla, J.M. Ulloa, D. González Applied Surface Science, 475, 473-478 (2019)
DOI: http://doi.org/10.1016/j.apsusc.2018.12.228

Factor de Impacto: JCR(6,182), SJR(1,23)
Posición en categoría JCR: 1/21 Q1 T1 D1 (Materials Science, Coatings & Films)

64.- COMPREHENSIVE (S)TEM CHARACTERIZATION OF POLYCRYSTALLINE GaN/AlN LAYERS GROWN ON LTCC SUBSTRATES
J.J. Jiménez, J.M. Mánuel, H. Bartsch, J. Breiling, R. García, H.O. Jacobs, J. Müller, J. Pezoldt, F.M. Morales
Ceramics International, 45 (7), 9114-9125 (2019)
DOI: http://doi.org/10.1016/j.ceramint.2019.01.250
Factor de Impacto: JCR(3,83), SJR(0,891)
Posición en categoría JCR: 2/28 Q1 T1 D1 (Materials Science, Ceramics)

63.- (S)TEM METHODS CONTRIBUTIONS TO IMPROVE THE FABRICATION OF InGaN THIN FILMS ON Si, AND InN NANOSTRUCTURES ON FLAT Si AND ROUGH InGaN
J.J. Jiménez, J.M. Mánuel, P. Aseev, P.E.D. Soto Rodríguez, R. Nötzel, Ž. Gačević, E. Calleja, R. García, F.M. Morales
Journal of Alloys and Compounds, 783, 697-708 (2019)
DOI: http://doi.org/10.1016/j.jallcom.2018.12.319
Factor de Impacto: JCR(4,65), SJR(1,055)
Posición en categoría JCR: 8/79 Q1 T1 D2 (Metallurgy & Metallurgical Engineering)

62.- POROSITY CONTROL FOR PLASMA-ASSISTED MOLECULAR BEAM EPITAXY OF GaN NANOWIRES
V.J. Gómez, A.J. Santos, E. Blanco, B. Lacroix, R. García, D.L. Huffaker, F.M. Morales
Crystal Growth and Design, 19 (4), 2431-2469 (2019)
DOI: http://doi.org/10.1021/acs.cgd.9b00146
Factor de Impacto: JCR(4,089), SJR(1,004)
Posición en categoría JCR: 5/26 Q1 T1 D2 (Crystallography)

61.- CONTROL OF NITROGEN INHOMOGENEITIES IN TYPE-I AND TYPE-II GaAsSbN SUPERLATTICES FOR SOLAR CELL DEVICES
N. Ruiz, V. Braza, A. Gonzalo, D. Fernández, T. Ben, S. Flores, J.M. Ulloa, D. González
Nanomaterials, 9 (4), 623[1]-623[9] (2019)
DOI: http://doi.org/10.3390/nano9040623
Factor de Impacto: JCR(4,324), SJR(0,858)
Posición en categoría JCR: 89/314 Q2 T1 D3 (Materials Science, Multidisciplinary)

60.- EXPERIMENTAL ANALYSIS OF WATER-BASED NANOFLUIDS USING BORON NITRIDE NANOTUBES WITH IMPROVED THERMAL PROPERTIES
R. Gómez-Villarejo, T. Aguilar, S. Hamze, P. Estellé, J. Navas
Journal of Molecular Liquids, 277, 93-103 (2019)
DOI: http://doi.org/10.1016/j.molliq.2018.12.093
Factor de Impacto: JCR(5,065), SJR(0,883)
Posición en categoría JCR: 4/37 Q1 T1 D2 (Physics, Atomic, Molecular & Chemical)

59.- DEVELOPMENT OF SURFACE-COATED POLYLACTIC ACID/POLYHYDROXYALKANOATE (PLA/PHA) NANOCOMPOSITES

J.J. Relinque, A.S. de León, J. Hernández-Saz, M.G. García-Romero, F.J. Navas-Martos, G. Morales-Cid, S.I. Molina
Polymers, 11 (3), 400[1]-400[12] (2019)
DOI: http://doi.org/10.3390/polym11030400
Factor de Impacto: JCR(3,426), SJR(0,704)
Posición en categoría JCR: 16/89 Q1 T1 D2 (Polymer Science)

58.- STRUCTURAL CHARACTERIZATION OF BULK AND NANOPARTICLE LEAD HALIDE PEROVSKITE THIN FILMS BY (S)TEM TECHNIQUES
N. Fernández-Delgado, M. Herrera, F.J. Delgado, A.H. Tavabi, M. Luysberg, R.E. Dunin-Borkowski, E.J. Juárez- Pérez, B.C. Hames, I. Mora-Sero, I. Suárez, J.P. Martínez-Pastor, S.I. Molina
Nanotechnology, 30 (13), 135701[1]-135701[13] (2019)
DOI: http://doi.org/10.1088/1361-6528/aafc85
Factor de Impacto: JCR(3,551), SJR(1,026)
Posición en categoría JCR: 40/154 Q2 T1 D3 (Physics, Applied)

57.- NANOSTRUCTURE AND PHYSICAL PROPERTIES CONTROL OF INDIUM TIN OXIDE FILMS PREPARED AT ROOM TEMPERATURE THROUGH ION BEAM SPUTTERING DEPOSITION AT OBLIQUE ANGLES
B. Lacroix, A.J. Santos, S. Hurand, A. Corvisier, F. Paumier, T. Girardeau, F. Maudet, C. Dupeyrat, R. García, F.M. Morales
Journal of Physical Chemistry C, 123 (22), 14036-14046 (2019)
DOI: http://doi.org/10.1021/acs.jpcc.9b02885
Factor de Impacto: JCR(4,189), SJR(1,477)
Posición en categoría JCR: 90/314 Q2 T1 D3 (Materials Science, Multidisciplinary)

56.- DESIGN AND DEVELOPMENT OF A PARAMETRIZABLE ELECTRIC GUITAR THROUGH ADDITIVE MANUFACTURING [DISEÑO Y DESARROLLO DE UNA GUITARRA ELÉCTRICA PARAMETRIZABLE MEDIANTE PROCESOS DE FABRICACIÓN ADITIVA]
D. Moreno-Nieto, G. De-La-Herrán, R. Bienvenido, S. Molina
Dyna (Spain), 94 (1), 26-31 (2019)
DOI: http://doi.org/10.6036/8672
Factor de Impacto: JCR(0,781), SJR(0,163)
Posición en categoría JCR: 76/91 Q4 T3 D9 (Engineering, Multidisciplinary)

55.- LARGE-FORMAT FUSED DEPOSITION ADDITIVE MANUFACTURING: A REVIEW
D. Moreno Nieto, S.I. Molina
Rapid Prototyping Journal (2019)
DOI: http://doi.org/10.1108/RPJ-05-2018-0126
Factor de Impacto: JCR(3,099), SJR(0,841)
Posición en categoría JCR: 31/130 Q1 T1 D3 (Engineering, Mechanical)

54.- BIOSYNTHESIS OF UNIFORM ULTRA-SMALL GOLD NANOPARTICLES BY AGED DRACAENA DRACO L EXTRACTS
M. Luna, R. Zarzuela, M.J. Mosquera, M.L.A. Gil, L.M. Cubillana-Aguilera, J.J. Delgado-Jaén, J.M. Palacios- Santander, V. García-Moreno, Y. Carmona-Jiménez

Colloids and Surfaces A: Physicochemical and Engineering Aspects, 581 , 123744[1]-123744[9] (2019) DOI: http://doi.org/10.1016/j.colsurfa.2019.123744
Factor de Impacto: JCR(3,99), SJR(0,78)
Posición en categoría JCR: 58/159 Q2 T2 D4 (Chemistry, Physical)

**2018**

53.- INFLUENCE OF THE ADDITIVATION OF GRAPHENE-LIKE MATERIALS ON THE PROPERTIES OF POLYAMIDE FOR POWDER BED FUSION
J.J. Relinque, M.G. García-Romero, J. Hernández-Saz, J. Navas, J. Gil-Mena, D.L. Sales, G. Morales-Cid, D. Aguilera, A. Periñan, F. Lasagni, S.I. Molina
Progress in Additive Manufacturing, 3 (4), 233-244 (2018)
DOI: http://doi.org/10.1007/s40964-018-0056-0
Factor de Impacto: No indexada
Posición en categoría JCR: No indexada.

52.- THE SONOGEL-CARBON-PEDOT MATERIAL: AN INNOVATIVE BULK MATERIAL FOR SENSOR DEVICES
D. López-Iglesias, J.J. García-Guzmán, D. Bellido-Milla, I. Naranjo-Rodríguez, J.M. Palacios-Santander, L. Cubillana-Aguilera
Journal of the Electrochemical Society, 165 (16), 906-915 (2018)
DOI: http://doi.org/10.1149/2.1021816jes
Factor de Impacto: JCR(3,12), SJR(1,138)
Posición en categoría JCR: 4/20 Q1 T1 D2 (Materials Science, Coatings & Films)

51.- LARGE-FORMAT POLYMERIC PELLET-BASED ADDITIVE MANUFACTURING FOR THE NAVAL INDUSTRY
Nieto Moreno, López Casal, S.I. Molina
Additive Manufacturing, 23, 79-85 (2018)
DOI: http://doi.org/10.1016/j.addma.2018.07.012
Factor de Impacto: JCR(7,173), SJR(2,591)
Posición en categoría JCR: 1/49 Q1 T1 D1 (Engineering, Manufacturing)

50.- TOWARDS THE IMPROVEMENT OF THE GLOBAL EFFICIENCY OF CONCENTRATING SOLAR POWER PLANTS BY USING PT-BASED NANOFLUIDS: THE INTERNAL MOLECULAR STRUCTURE EFFECT
R. Gómez-Villarejo, E.I. Martín, A. Sánchez-Coronilla, T. Aguilar, J.J. Gallardo, P. Martínez-Merino, I. Carrillo- Berdugo, R. Alcántara, C. Fernández-Lorenzo, J. Navas
Applied Energy, 228, 2262-2274 (2018)
DOI: http://doi.org/10.1016/j.apenergy.2018.07.062
Factor de Impacto: JCR(8,426), SJR(3,455)
Posición en categoría JCR: 5/138 Q1 T1 D1 (Engineering, Chemical)

49.- HIGH RESOLUTION BORON CONTENT PROFILOMETRY AT Δ-DOPING EPITAXIAL DIAMOND INTERFACES BY CTEM
J.C. Piñero, F. Lloret, M.P. Alegre, M.P. Villar, A. Fiori, E. Bustarret, D. Araújo
Applied Surface Science, 461, 221-226 (2018)
DOI: http://doi.org/10.1016/j.apsusc.2018.07.097

Factor de Impacto: JCR(5,155), SJR(1,115)
Posición en categoría JCR: 1/20 Q1 T1 D1 (Materials Science, Coatings & Films)

48.- DETERMINATION OF ALUMINA BANDGAP AND DIELECTRIC FUNCTIONS OF DIAMOND MOS BY STEM- VEELS
J. Cañas, J.C. Piñero, F. Lloret, M. Gutierrez, T. Pham, J. Pernot, D. Araújo
Applied Surface Science, 461, 93-97 (2018)
DOI: http://doi.org/10.1016/j.apsusc.2018.06.163
Factor de Impacto: JCR(5,155), SJR(1,115)
Posición en categoría JCR: 1/20 Q1 T1 D1 (Materials Science, Coatings & Films)

47.- COMPOSITIONAL INHOMOGENEITIES IN TYPE-I AND TYPE-II SUPERLATTICES FOR GaAsSbN-BASED SOLAR CELLS: EFFECT OF THERMAL ANNEALING
V. Braza, D.F. Reyes, A. Gonzalo, A.D. Utrilla, J.M. Ulloa, S. Flores, T. Ben, D. González
Applied Surface Science, 459, 1-8 (2018)
DOI: http://doi.org/10.1016/j.apsusc.2018.07.184
Factor de Impacto: JCR(5,155), SJR(1,115)
Posición en categoría JCR: 1/20 Q1 T1 D1 (Materials Science, Coatings & Films)

46.- MODELLING OF THE Sb AND N DISTRIBUTION IN TYPE II GaAsSb/GaAsN SUPERLATTICES FOR SOLAR CELL APPLICATIONS
D.F. Reyes, V. Braza, A. Gonzalo, A.D. Utrilla, J.M. Ulloa, T. Ben, D. González
Applied Surface Science, 442, 664-672 (2018)
DOI: http://doi.org/10.1016/j.apsusc.2018.02.113
Factor de Impacto: JCR(5,155), SJR(1,115)
Posición en categoría JCR: 1/20 Q1 T1 D1 (Materials Science, Coatings & Films)

45.- STRUCTURAL AND CHEMICAL CHARACTERIZATION OF CdSe-ZnS CORE-SHELL QUANTUM DOTS
N. Fernández-Delgado, M. Herrera, A.H. Tavabi, M. Luysberg, R.E. Dunin-Borkowski, P.J. Rodriguez-Cantó, R. Abargues, J.P. Martínez-Pastor, S.I. Molina
Applied Surface Science, 457, 93-97 (2018)
DOI: http://doi.org/10.1016/j.apsusc.2018.06.149
Factor de Impacto: JCR(5,155), SJR(1,115)
Posición en categoría JCR: 1/20 Q1 T1 D1 (Materials Science, Coatings & Films)

44.- THREE-DIMENSIONAL DIAMOND MPCVD GROWTH OVER MESA STRUCTURES: A GEOMETRIC MODEL FOR GROWTH SECTOR CONFIGURATION
F. Lloret, D. Araújo, D. Eon, E. Bustarret
Crystal Growth and Design, 18 (12), 7628-7632 (2018)
DOI: http://doi.org/10.1021/acs.cgd.8b01424
Factor de Impacto: JCR(4,153), SJR(1,046)
Posición en categoría JCR: 3/26 Q1 T1 D2 (Crystallography)

43.- INFLUENCE OF THE GROWTH TEMPERATURE ON THE COMPOSITION DISTRIBUTION AT SUB-NM SCALE OF InAlAsSb FOR SOLAR CELLS
J. Hernández-Saz, M. Herrera, J. Pizarro, P.L. Galindo, M. Gonzalez, J. Abell, R.J.

Walters, S.I. Molina, S. Duguay
Journal of Alloys and Compounds, 763, 1005-1011 (2018)
DOI: http://doi.org/10.1016/j.jallcom.2018.05.333
Factor de Impacto: JCR(4,175), SJR(1,065)
Posición en categoría JCR: 6/76 Q1 T1 D1 (Metallurgy & Metallurgical Engineering)

42.- MoS2 NANOSHEETS VS. NANOWIRES: PREPARATION AND A THEORETICAL STUDY OF HIGHLY STABLE AND EFFICIENT NANOFLUIDS FOR CONCENTRATING SOLAR POWER
J. Navas, P. Martínez-Merino, A. Sánchez-Coronilla, J.J. Gallardo, R. Alcántara, E.I. Martín, J.C. Piñero, J.R. León, T. Aguilar, J.H. Toledo, C. Fernández-Lorenzo
Journal of Materials Chemistry A, 6 (30), 14919-14929 (2018)
DOI: http://doi.org/10.1039/c8ta03817a
Factor de Impacto: JCR(10,733), SJR(3,372)
Posición en categoría JCR: 6/103 Q1 T1 D1 (Energy & Fuels)

41.- HAADF-STEM FOR THE ANALYSIS OF CORE–SHELL QUANTUM DOTS
N. Fernández-Delgado, M. Herrera, J. Pizarro, P. Galindo, S.I. Molina
Journal of Materials Science, 53 (21), 15226-15236 (2018)
DOI: http://doi.org/10.1007/s10853-018-2694-5
Factor de Impacto: JCR(3,442), SJR(0,823)
Posición en categoría JCR: 82/293 Q2 T1 D3 (Materials Science, Multidisciplinary)

40.- EXPERIMENTAL CHARACTERIZATION AND THEORETICAL MODELLING OF Ag AND Au-NANOFLUIDS: A COMPARATIVE STUDY OF THEIR THERMAL PROPERTIES
R. Gómez-Villarejo, E.I. Martín, A. Sánchez-Coronilla, T. Aguilar, M. Teruel, R. Alcántara, I. Carrillo-Berdugo, C. Fernández-Lorenzo, J. Navas
Journal of Nanofluids, 7 (6), 1059-1068 (2018)
DOI: http://doi.org/10.1166/jon.2018.1544
Factor de Impacto: SJR(0,289)
Posición en categoría JCR: No indexada.

39.- ANALYTICAL DETERMINATION OF THE REDUCING AND STABILIZATION AGENTS PRESENT IN DIFFERENT ZOSTERA NOLTII EXTRACTS USED FOR THE BIOSYNTHESIS OF GOLD NANOPARTICLES
R. Zarzuela, M.J. Luna, M.L.A. Gil, M.J. Ortega, J.M. Palacios-Santander, I. Naranjo-Rodríguez, J.J. Delgado, L.M. Cubillana-Aguilera
Journal of Photochemistry and Photobiology B: Biology, 179, 32-38 (2018)
DOI: http://doi.org/10.1016/j.jphotobiol.2017.12.025
Factor de Impacto: JCR(4,067), SJR(0,773)
Posición en categoría JCR: 14/72 Q1 T1 D2 (Biophysics)

38.- GAUSSIAN KERNEL DENSITY FUNCTIONS FOR COMPOSITIONAL QUANTIFICATION IN ATOM PROBE TOMOGRAPHY
J. Hernández-Saz, J. Pizarro, M. Herrera, S.I. Molina, P.L. Galindo
Materials Characterization, 139, 63-69 (2018)
DOI: http://doi.org/10.1016/j.matchar.2018.02.033
Factor de Impacto: JCR(3,22), SJR(1,295)

Posición en categoría JCR: 4/33 Q1 T1 D2 (Materials Science, Characterization & Testing)

37.- TiO2-SiO2 COATINGS WITH A LOW CONTENT OF AuNPs FOR PRODUCING SELF-CLEANING BUILDING MATERIALS
M. Luna, J.J. Delgado, M.L.A. Gil, M.J. Mosquera
Nanomaterials, 8 (3), 177[1]-177[26] (2018)
DOI: http://doi.org/10.3390/nano8030177
Factor de Impacto: JCR(4,034), SJR(0,896)
Posición en categoría JCR: 71/293 Q1 T1 D3 (Materials Science, Multidisciplinary)

36.- CRYSTALLINE DEFECTS INDUCED DURING MPCVD LATERAL HOMOEPITAXIAL DIAMOND GROWTH
F. Lloret, D. Eon, E. Bustarret, D. Araújo
Nanomaterials, 8 (10), 814[1]-814[10] (2018)
DOI: http://doi.org/10.3390/nano8100814
Factor de Impacto: JCR(4,034), SJR(0,896)
Posición en categoría JCR: 71/293 Q1 T1 D3 (Materials Science, Multidisciplinary)

35.- BORON-DOPING PROXIMITY EFFECTS ON DISLOCATION GENERATION DURING NON-PLANAR MPCVD HOMOEPITAXIAL DIAMOND GROWTH
F. Lloret, D. Eon, E. Bustarret, A. Fiori, D. Araújo
Nanomaterials, 8 (7), 480[1]-480[7] (2018)
DOI: http://doi.org/10.3390/nano8070480
Factor de Impacto: JCR(4,034), SJR(0,896)
Posición en categoría JCR: 71/293 Q1 T1 D3 (Materials Science, Multidisciplinary)

34.- ENGINEERING OF III-NITRIDE SEMICONDUCTORS ON LOW TEMPERATURE CO-FIRED CERAMICS
J.M. Mánuel, J.J. Jiménez, F.M. Morales, B. Lacroix, A.J. Santos, R. García, E. Blanco, M. Domínguez, M. Ramírez, A.M. Beltrán, D. Alexandrov, J. Tot, R. Dubreuil, V. Videkov, S. Andreev, B. Tzaneva, H. Bartsch, J. Breiling, J. Pezoldt, M. Fischer, J. Müller
Scientific Reports, 8 (1), 6879[1]-6879[14] (2018)
DOI: http://doi.org/10.1038/s41598-018-25416-6
Factor de Impacto: JCR(4,011), SJR(1,414)
Posición en categoría JCR: 15/69 Q1 T1 D3 (Multidisciplinary Sciences)

33.- DEVELOPMENT OF SONOGEL-CARBON BASED BIOSENSORS USING SINUSOIDAL VOLTAGES AND CURRENTS METHODS
J.J. García Guzmán, L.C. Aguilera, D.B. Milla, I.N. Rodríguez, C. Lete, J.M. Palacios Santander, S. Lupu Sensors and Actuators, B: Chemical, 255, 1525-1535 (2018)
DOI: http://doi.org/10.1016/j.snb.2017.08.161
Factor de Impacto: JCR(6,393), SJR(1,389)
Posición en categoría JCR: 2/61 Q1 T1 D1 (Instruments & Instrumentation)

32.- AN ELLIPSOMETRIC ANALYSIS TO MODEL THE ORDER-DISORDER TRANSITION IN Au-SiO2 NANO- GRANULAR THIN FILMS INDUCED BY THERMAL ANNEALING

H. Bakkali, E. Blanco, M. Amrani, J. Brigui, M. Domínguez
Thin Solid Films, 660, 455-462 (2018)
DOI: http://doi.org/10.1016/j.tsf.2018.06.045
Factor de Impacto: JCR(1,888), SJR(0,531)
Posición en categoría JCR: 74/148 Q2 T2 D5 (Physics, Applied)

31.- MOS2/CU/TIO2 NANOPARTICLES: SYNTHESIS, CHARACTERIZATION AND EFFECT ON PHOTOCATALYTIC DECOMPOSITION OF METHYLENE BLUE IN WATER UNDER VISIBLE LIGHT
D. De Los Santos, S. Chahid, R. Alcántara, J. Navas, T. Aguilar, J.J. Gallardo, R. Gómez-Villarejo, I. Carrillo- Berdugo, C. Fernández-Lorenzo
Water Science and Technology, 2017 (1), 184-193 (2018)
DOI: http://doi.org/10.2166/wst.2018.101
Factor de Impacto: JCR(1,624), SJR(0,455)
Posición en categoría JCR: 58/91 Q3 T2 D7 (Water Resources)

30.- LONG-TERM EFFECTIVENESS, UNDER A COASTAL ENVIRONMENT, OF A NOVEL CONSERVATION NANOMATERIAL APPLIED ON SANDSTONE FROM A ROMAN ARCHAEOLOGICAL SITE
F. Elhaddad, L.A.M. Carrascosa, M.J. Mosquera
Journal of Cultural Heritage, 34, 208-217 (2018)
DOI: http://doi.org/10.1016/j.culher.2018.04.013
Factor de Impacto: JCR(1,955), SJR(0,61)
Posición en categoría JCR: 103/196 Q3 T2 D6 (Geosciences, Multidisciplinary)

29.- EVALUATION OF THE EFFECTIVENESS OF CuONPS/SiO2-BASED TREATMENTS FOR BUILDING STONES AGAINST THE GROWTH OF PHOTOTROPHIC MICROORGANISMS
R. Zarzuela, I. Moreno-Garrido, J. Blasco, M.L.A. Gil, M.J. Mosquera
Construction and Building Materials, 187, 501-509 (2018)
DOI: http://doi.org/10.1016/j.conbuildmat.2018.07.116
Factor de Impacto: JCR(4,046), SJR(1,522)
Posición en categoría JCR: 9/132 Q1 T1 D1 (Engineering, Civil)

28.- THE EFFECT OF Cu-DOPED TiO2 PHOTOANODE ON PHOTOVOLTAIC PERFORMANCE OF DYE-SENSITIZED SOLAR CELLS.
S. Chahid, D.M. de los Santos, R. Alcántara
ACM International Conference Proceeding Series (2018)
DOI: http://doi.org/10.1145/3286606.3286854
Factor de Impacto: SJR(0,169)
Posición en categoría JCR: No indexada.

27.- NEW CONSOLIDANT-HYDROPHOBIC TREATMENT BY COMBINING SiO2 COMPOSITE AND FLUORINATED ALKOXYSILANE: APPLICATION ON DECAYED BIOCALCAREOUS STONE FROM AN 18TH CENTURY CATHEDRAL
D.S. Facio, J.A. Ordoñez, M.L.A. Gil, L.A.M. Carrascosa, M.J. Mosquera
Coatings, 8 (5) (2018)
DOI: http://doi.org/10.3390/coatings8050170

Factor de Impacto: JCR(2,33)
Posición en categoría JCR: 7/20 Q2 T2 D4 (Materials Science, Coatings & Films)

26.- LONG-TERM EFFECTIVENESS, UNDER A MOUNTAIN ENVIRONMENT, OF A NOVEL CONSERVATION NANOMATERIAL APPLIED ON LIMESTONE FROM A ROMAN ARCHAEOLOGICAL SITE
F. Elhaddad, L.A.M. Carrascosa, M.J. Mosquera
Materials, 11 (5) (2018)
DOI: http://doi.org/10.3390/ma11050694
Factor de Impacto: JCR(2,972), SJR(0,686)
Posición en categoría JCR: 102/293 Q2 T2 D4 (Materials Science, Multidisciplinary)

**2017**

25.- STRUCTURAL AND COMPOSITIONAL ANALYSIS OF CORE/SHELL QDs BY TRANSMISSION ELECTRON
N. Fernández-Delgado, M. Herrera-Collado, J. Pizarro, P. Galindo, P. Rodriguez-cantó, R. Abargues, J. Martínez-pastor, S.I. Molina
Microscopy and Microanalysis, 23 (1), 1768-1769 (2017)
DOI: http://doi.org/10.1017/S1431927617009503
Factor de Impacto: JCR(2,124), SJR(0,292)
Posición en categoría JCR: 3/10 Q2 T1 D3 (Microscopy)

24.- AG-BASED NANOFLUIDIC SYSTEM TO ENHANCE HEAT TRANSFER FLUIDS FOR CONCENTRATING SOLAR POWER: NANO-LEVEL INSIGHTS
R. Gómez-Villarejo, E.I. Martín, J. Navas, A. Sánchez-Coronilla, T. Aguilar, J.J. Gallardo, R. Alcántara, D. De los Santos, I. Carrillo-Berdugo, C. Fernández-Lorenzo
Applied Energy, 194, 19-29 (2017)
DOI: http://doi.org/10.1016/j.apenergy.2017.03.003
Factor de Impacto: JCR(7,9), SJR(3,162)
Posición en categoría JCR: 4/137 Q1 T1 D1 (Engineering, Chemical)

23.- OPTICAL PROPERTIES OF Au–TiO2 AND Au–SiO2 GRANULAR METAL THIN FILMS STUDIED BY SPECTROSCOPIC ELLIPSOMETRY
H. Bakkali, E. Blanco, M. Domínguez, M.B. de la Mora, C. Sánchez-Aké, M. Villagrán-Muniz
Applied Surface Science, 405, 240-246 (2017)
DOI: http://doi.org/10.1016/j.apsusc.2017.01.293
Factor de Impacto: JCR(4,439), SJR(1,093)
Posición en categoría JCR: 1/19 Q1 T1 D1 (Materials Science, Coatings & Films)

22.- ATOMIC COMPOSITION OF WC/ AND Zr/O-TERMINATED DIAMOND SCHOTTKY INTERFACES CLOSE TO IDEALITY
J.C. Piñero, D. Araújo, A. Fiori, A. Traoré, M.P. Villar, D. Eon, P. Muret, J. Pernot, T. Teraji
Applied Surface Science, 395, 200-207 (2017)
DOI: http://doi.org/10.1016/j.apsusc.2016.04.166

Factor de Impacto: JCR(4,439), SJR(1,093)
Posición en categoría JCR: 1/19 Q1 T1 D1 (Materials Science, Coatings & Films)

21.- TWINS AND STRAIN RELAXATION IN ZINC-BLENDE GaAs NANOWIRES GROWN ON SILICON
J.C. Piñero, D. Araújo, C.E. Pastore, M. Gutierrez, C. Frigeri, A. Benali, J.F. Lelièvre, M. Gendry
Applied Surface Science, 395, 195-199 (2017)
DOI: http://doi.org/10.1016/j.apsusc.2016.07.144
Factor de Impacto: JCR(4,439), SJR(1,093)
Posición en categoría JCR: 1/19 Q1 T1 D1 (Materials Science, Coatings & Films)

20.- EFFECT OF AN IN-SITU THERMAL ANNEALING ON THE STRUCTURAL PROPERTIES OF SELF-ASSEMBLED GaSb/GaAs QUANTUM DOTS
N. Fernández-Delgado, M. Herrera, M.F. Chisholm, M.A. Kamarudin, Q.D. Zhuang, M. Hayne, S.I. Molina Applied Surface Science, 395, 136-139 (2017)
DOI: http://doi.org/10.1016/j.apsusc.2016.04.131
Factor de Impacto: JCR(4,439), SJR(1,093)
Posición en categoría JCR: 1/19 Q1 T1 D1 (Materials Science, Coatings & Films)

19.- INSIGHTS ON THE COMBUSTION MECHANISM OF ETHANOL AND N-HEXANE IN HONEYCOMB MONOLITHIC TYPE CATALYSTS: INFLUENCE OF THE AMOUNT AND NATURE OF Mn-Cu MIXED OXIDE
M.R. Morales, M.P. Yeste, H. Vidal, J.M. Gatica, L.E. Cadus
Fuel, 208, 637-646 (2017)
DOI: http://doi.org/10.1016/j.fuel.2017.07.069
Factor de Impacto: JCR(4,908), SJR(1,891)
Posición en categoría JCR: 13/137 Q1 T1 D1 (Engineering, Chemical)

18.- PREPARATION OF Au NANOPARTICLES IN A NON-POLAR MEDIUM: OBTAINING HIGH-EFFICIENCY NANOFLUIDS FOR CONCENTRATING SOLAR POWER. AN EXPERIMENTAL AND THEORETICAL PERSPECTIVE
R. Gómez-Villarejo, J. Navas, E.I. Martín, A. Sánchez-Coronilla, T. Aguilar, J.J. Gallardo, D. De Los Santos, R. Alcántara, C. Fernández-Lorenzo, J. Martín-Calleja
Journal of Materials Chemistry A, 5 (24), 12483-12497 (2017)
DOI: http://doi.org/10.1039/c7ta00986k
Factor de Impacto: JCR(9,931), SJR(3,488)
Posición en categoría JCR: 6/97 Q1 T1 D1 (Energy & Fuels)

17.- SOFTWARE TO OBTAIN ACCURATE GAUSSIAN EXPANSIONS FOR A WIDE RANGE OF RADIAL FUNCTIONS
V. García, D. Zorrilla, J. Sánchez-Márquez, M. Fernández-Núñez
Journal of Molecular Modeling, 23 (5), 165[1]-165[8] (2017)
DOI: http://doi.org/10.1007/s00894-017-3340-x
Factor de Impacto: JCR(1,507), SJR(0,36)
Posición en categoría JCR: 105/171 Q3 T2 D7 (Chemistry, Multidisciplinary)

16.- GADITANONE, A DITERPENOID BASED ON AN UNPRECEDENTED CARBON SKELETON ISOLATED FROM EUPHORBIA GADITANA
M.E. Flores-Giubi, M.J. Durán-Pena, J.M. Botubol-Ares, F. Escobar-Montano, D. Zorrilla, A.J. Macías-Sánchez, R. Hernández-Galán
Journal of Natural Products, 80 (7), 2161-2165 (2017)
DOI: http://doi.org/10.1021/acs.jnatprod.7b00332
Factor de Impacto: JCR(3,885), SJR(1,368)
Posición en categoría JCR: 21/222 Q1 T1 D1 (Plant Sciences)

15.- ABSORPTION CAPACITY, KINETICS AND MECHANICAL BEHAVIOUR IN DRY AND WET STATES OF HYDROPHOBIC DEDMS/TEOS-BASED SILICA AEROGELS
V. Morales-Florez, M. Piñero, V. Braza, M. del Mar Mesa, L. Esquivias, N. de la Rosa-Fox
Journal of Sol-Gel Science and Technology, 81 (2), 600-610 (2017)
DOI: http://doi.org/10.1007/s10971-016-4203-0
Factor de Impacto: JCR(1,745), SJR(0,477)
Posición en categoría JCR: 6/27 Q1 T1 D3 (Materials Science, Ceramics)

14.- THE IMPACT OF Pd ON THE LIGHT HARVESTING IN HYBRID ORGANIC-INORGANIC PEROVSKITE FOR SOLAR CELLS
J. Navas, A. Sánchez-Coronilla, J.J. Gallardo, J.C. Piñero, D. De los Santos, E.I. Martín, N.C. Hernández, R. Alcántara, C. Fernández-Lorenzo, J. Martín-Calleja
Nano Energy, 34, 141-154 (2017)
DOI: http://doi.org/10.1016/j.nanoen.2017.02.035
Factor de Impacto: JCR(13,12), SJR(5,185)
Posición en categoría JCR: 7/146 Q1 T1 D1 (Physics, Applied)

13.- Sb AND N INCORPORATION INTERPLAY IN GaAsSbN/GaAs EPILAYERS NEAR LATTICE-MATCHING CONDITION FOR 1.0–1.16-eV PHOTONIC APPLICATIONS
V. Braza, D.F. Reyes, A. Gonzalo, A.D. Utrilla, T. Ben, J.M. Ulloa, D. González
Nanoscale Research Letters, 12, 356[1]-356[10] (2017)
DOI: http://doi.org/10.1186/s11671-017-2129-2
Factor de Impacto: JCR(3,125), SJR(0,713)
Posición en categoría JCR: 33/146 Q1 T1 D3 (Physics, Applied)

12.- FABRICATION AND OPTICAL PROPERTIES OF NANOSTRUCTURED PLASMONIC Al2O3/Au-Al2O3/Al2O3 METAMATERIALS
H. Bakkali, E. Blanco, M. Domínguez, J.S. Garitaonandia
Nanotechnology, 28 (33), 335704 (2017)
DOI: http://doi.org/10.1088/1361-6528/aa7b6c
Factor de Impacto: JCR(3,404), SJR(1,079)
Posición en categoría JCR: 30/146 Q1 T1 D3 (Physics, Applied)

11.- QUANTITATIVE ANALYSIS OF THE INTERPLAY BETWEEN InAs QUANTUM DOTS AND WETTING LAYER DURING THE GaAs CAPPING PROCESS
D. González, V. Braza, A.D. Utrilla, A. Gonzalo, D.F. Reyes, T. Ben, A. Guzman, A. Hierro, J.M. Ulloa Nanotechnology, 28 (42), 425702 (2017)
DOI: http://doi.org/10.1088/1361-6528/aa83e2

Factor de Impacto: JCR(3,404), SJR(1,079)
Posición en categoría JCR: 30/146 Q1 T1 D3 (Physics, Applied)

10.- MPCVD DIAMOND LATERAL GROWTH THROUGH MICROTERRACES TO REDUCE THREADING DISLOCATIONS DENSITY
F. Lloret, M. Gutierrez, D. Araújo, D. Eon, E. Bustarret
Physica Status Solidi (A) Applications and Materials Science, 214 (11), 1700242[1]-1700242[5] (2017)
DOI: http://doi.org/10.1002/pssa.201700242
Factor de Impacto: JCR(1,795), SJR(0,648)
Posición en categoría JCR: 71/146 Q2 T2 D5 (Physics, Applied)

9.- IMPACT OF THERMAL TREATMENTS IN CRYSTALLINE RECONSTRUCTION AND ELECTRICAL PROPERTIES OF DIAMOND OHMIC CONTACTS CREATED BY BORON ION IMPLANTATION
J.C. Piñero, M.P. Villar, D. Araújo, J. Montserrat, B. Antúnez, P. Godignon
Physica Status Solidi (A) Applications and Materials Science, 214 (11), 1700230[1]-1700230[7] (2017) DOI: http://doi.org/10.1002/pssa.201700230
Factor de Impacto: JCR(1,795), SJR(0,648)
Posición en categoría JCR: 71/146 Q2 T2 D5 (Physics, Applied)

8.- HOMOAGGLOMERATION AND HETEROAGGLOMERATION OF TiO2, IN NANOPARTICLE AND BULK FORM, ONTO FRESHWATER AND MARINE MICROALGAE
M. Sendra, M.P. Yeste, J.M. Gatica, I. Moreno-Garrido, J. Blasco
Science of the Total Environment, 592, 403-411 (2017)
DOI: http://doi.org/10.1016/j.scitotenv.2017.03.127
Factor de Impacto: JCR(4,61), SJR(1,546)
Posición en categoría JCR: 27/241 Q1 T1 D2 (Environmental Sciences)

7.- CeO2NPs, TOXIC OR PROTECTIVE TO PHYTOPLANKTON? CHARGE OF NANOPARTICLES AND CELL WALL AS FACTORS WHICH CAUSE CHANGES IN CELL COMPLEXITY
M. Sendra, P.M. Yeste, I. Moreno-Garrido, J.M. Gatica, J. Blasco
Science of the Total Environment, 590-591, 304-315 (2017)
DOI: http://doi.org/10.1016/j.scitotenv.2017.03.007
Factor de Impacto: JCR(4,61), SJR(1,546)
Posición en categoría JCR: 27/241 Q1 T1 D2 (Environmental Sciences)

6.- SOLID SAMPLING GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROMETRY FOR THE DIRECT ANALYSIS OF MICROEXTRACTION SOLVENT BARS USED FOR METAL ULTRA-TRACE PRE-CONCENTRATION
R.J. González-Álvarez, J.J. Pinto, D. Bellido-Milla, C. Moreno
Spectrochimica Acta, Part B: Atomic Spectroscopy, 135 (Sep 2017), 1-5 (2017)
DOI: http://doi.org/10.1016/j.sab.2017.06.013
Factor de Impacto: JCR(2,854), SJR(0,96)
Posición en categoría JCR: 10/42 Q1 T1 D3 (Spectroscopy)

5.- DIMENSIONALITY OF THE CRYSTAL GROWTH, EXPONENTS OF THE POWER LAWS AND ACTIVATION ENERGY FOR NUCLEATION AND GROWTH PROCESSES IN GLASS-CRYSTAL TRANSFORMATIONS UNDER NON- ISOTHERMAL REGIME. APPLICATION TO THE CRYSTALLIZATION OF THE Sb0.13As0.35Se0.52 GLASSY SEMICONDUCTOR
J.L. Cárdenas-Leal, D.G.-G. Barreda, M. Piñero, J. Vázquez
Thermochimica Acta, 657, 203-208 (2017)
DOI: http://doi.org/10.1016/j.tca.2017.10.007
Factor de Impacto: JCR(2,189), SJR(0,605)
Posición en categoría JCR: 22/59 Q2 T2 D4 (Thermodynamics)

4.- PRODUCING LASTING AMPHIPHOBIC BUILDING SURFACES WITH SELF-CLEANING PROPERTIES
D.S. Facio, L.A.M. Carrascosa, M.J. Mosquera
Nanotechnology, 28 (26) (2017)
DOI: http://doi.org/10.1088/1361-6528/aa73a3
Factor de Impacto: JCR(3,404), SJR(1,079)
Posición en categoría JCR: 30/146 Q1 T1 D3 (Physics, Applied)

3.- CuO/SiO2 NANOCOMPOSITES: A MULTIFUNCTIONAL COATING FOR APPLICATION ON BUILDING STONE
R. Zarzuela, M. Carbú, M.L.A. Gil, J.M. Cantoral, M.J. Mosquera
Materials and Design, 114, 364-372 (2017)
DOI: http://doi.org/10.1016/j.matdes.2016.11.009
Factor de Impacto: JCR(4,525), SJR(1,82)
Posición en categoría JCR: 53/285 Q1 T1 D2 (Materials Science, Multidisciplinary)

2.- INFLUENCE OF PRETREATMENTS ON INTERMETALLIC PARTICLES AND CERIUM CONVERSION COATING (CECC) IN ALUMINUM AEROSPACE ALLOYS
J.J. Alba Galvín, L. Gonzáles Rovira, J. Botana, M. Bethencourt
EUROCORR 2017 - The Annual Congress of the European Federation of Corrosion, 20th International Corrosion Congress and Process Safety Congress 2017 (2017)
Factor de Impacto: No indexada
Posición en categoría JCR: No indexada.

1.- FACILE PREPARATION OF MESOPOROUS SILICA MONOLITHS BY AN INVERSE MICELLE MECHANISM
D.S. Facio, M. Luna, M.J. Mosquera
Microporous and Mesoporous Materials, 247, 166-176 (2017)
DOI: http://doi.org/10.1016/j.micromeso.2017.03.041
Factor de Impacto: JCR(3,649), SJR(1,08)
Posición en categoría JCR: 12/71 Q1 T1 D2 (Chemistry, Applied)