Institut Jean Le Rond d'Alembert

Liste complète des publications 2012-2017


9. K. Leistner, A. Nicolle, P. Da Costa. Impact of the Catalyst/Soot Ratio on the Contribution of Non-catalytic pathways to Diesel Soot Oxidation by Pt/Ce0.73Zr0.27O2, Energy and Fuels, 2012, 26 (10), pp 6091–6097


15. K. Leistner, A. Nicolle, P. Da Costa Modeling the Kinetics of NO oxidation and NOx storage over Platinum, Ceria and Ceria zirconia, Applied Catalysis, B: Env; 111-112; (2012) 415-423


23. Xu, H., Malaspinas, O., Sagaut, P. Sensitivity analysis and determination of free relaxation parameters for the


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19. N. Rankovic, C. Chizallet, A. Nicolle, D. Berthout, P. Da Costa Sulfur deactivation of NOx storage catalysts; a multiscale modeling approach Oil & Gas Science and Technology (2013), http://dx.doi.org/10.2516/ogst/2013123


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7. R.Dębek, A.Gramatyka, M.Motak, P. Da Costa Produkcja gazu syntezowego w reakcji suchego reformingu metanu na katalizatorach hydrokataliztorowych Syngas production from dry reforming of methane over hydroalumina-derived catalysts Przemysł Chemiczny, 93/12 2014, 2026-2032, DOI: dx.medra.org/10.12916/przemchem.2014.2026


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30. Y. Ling, S. Zaleski and R. Scardovelli, 2015: Multiscale Simulation of Atomization with Small Droplets
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19. Lagrée, B., Zaleski, S., Bondino, I. 2016, Simulation of Viscous Fingering in Rectangular Porous Media with


12. L. Yao, Y. Wang, M. E. Galvez, C. Hu and P. Da Costa Ni-Mo2C supported on alumina as substitute of Ni-Mo reduced catalyst supported on alumina material for dry reforming of methane, Comptes Rendus Chimie, Académie des Sciences, in press, March 2017

13. R. Dębek, M. Motak, M. E. Galvez, T. Grzybek, P. Da Costa Promotion effect of zirconia on Mg(Ni,Al)O mixed oxides derived from hydrotalcites in CO2 methanation reforming Applied Catalysis B: accepted for publication, in press, February 2017


18. H. Liu, H. Bel Hadj Taief, M. E. Galvez, P. Da Costa Ceria and zirconia modified natural clay based nickel catalysts for dry reforming of methane International Journal of hydrogen energy, accepted for publication, DOI:10.1016/j.ijhydene.2017.01.075


23. H. Liu, P. Da Costa, H. Bel Haddjtaief, M. Ben Zina, M. E. Galvez Natural clay-based Ni-catalysts for dry reforming of methane at moderate temperatures Catalysis today, in press, 10.1016/j.cattod.2016.12.017


Equipe « Fluides Complexes et Instabilités Hydrodynamiques » (FCIH)

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23. F Bianco, S Chibbaro, D Vergni and A Vulpiani Reaction spreading on percolating clusters Phys Rev E 87(6) 062811

24. F Bianco, S Chibbaro, D Vergni and A Vulpiani, Front speed in reactive compressible stirred media Phys Rev E 87(4) 042924


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29. Alessio Innocenti, Cristian Marchioli, and Sergio Chibbaro. Lagrangian filtered density function for LES-based...


39. F Zonta and S Chibbaro Fluctuations of entropy production in turbulent convection EPL, 114 (2016) 50011


43. Elettro, Neukirch, V ollrath and Antkowiak, In-drop capillary spooling of spider capture thread inspires hybrid _bers with mixed solid|liquid mechanical properties”, Proceedings of the National Academy of Sciences of the United States of America 113 (22) :6143:6147 (2016)


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1. Marguerite Jossic, Adrien Mamou-Mani, Baptiste Chomette, David Roze, François Ollivier, and Christophe


Equipe « Lutheries - Acoustique - Musique » (LAM)

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8. Etienne Hendrickx, Peter Stitt, Jean-Christophe Messonnier, Jean-Marc Lyzwa, Brian F. Katz, and Catherine de Boishéraud, Improvement of externalization by listener and source movement, using a “binauralized” microphone array, J. Audio Eng. Soc, p. (accepted May), 2017


18. Delphine Chadeaux, Guillaume Rao, Jean-Loïc Le Carrou, Eric Berton, Laurent Vigouroux. The effects of player grip on the dynamic behaviour of a tennis racket The effects of player grip on the dynamic behaviour of a tennis


22. Flore Samaran, Nadège Gandilhon, Yann Doh, Dorian Cazau, Christophe Laplanche, Maciej Lopatka, Hervé Glotin, Paul White, Jan Zarzycki, Jean-François Motsch, and Olivier Adam, Inside the sounds emitted by some cetacean species, Detection, classification, localization of marine mammals using passive acoustics, ed. Dirac Eds,(2017) 267-286

Equipe « Mécanique et Ingénierie des Solides et des Structures » MISES

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17. Leblond J.-B., Patinet S., Frelat J. & Lazarus V., Second-order coplanar perturbation of a semi-infinite crack in an


42. Tran V. X., Leguillon D., Krishnan A. & Xu L. R., Interface crack initiation at V-notches along adhesive bonding in


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Equipe « Mécanique et Ingéniérie des Solides et des Structures » MPIA

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12. F.Coulouvrat, New equations for nonlinear acoustics in a low Mach number and weakly heterogeneous atmosphere, Wave Motion, 49, 50-63 (2012)
theory for one-dimensional self-similar elasticity and applications to wave propagation and diffusion, European Journal of Applied Mathematics, 23, 709-735 (2012)


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20. A.Hekmati, D.Ricot and PH.Druault, Numerical synthesis of aeroacoustic wall pressure fields over a flat plate:


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1. V. Balbi and P. Ciarletta, Helical buckling of thick-walled, pre-stressed cylindrical tubes under a finite torsion. MATHEMATICS AND MECHANICS OF SOLIDS vol. 20, 625-642 (2014)


16. G.A. Maugin, Continuum mechanics through the eighteenth and nineteenth centuries (Historical perspective from John Bernoulli (1727) to Ernst Hellinger (1914)), Vol. 214 in the Springer SMIA Series, Dordrecht (330 pages, in print) (2014)

17. T. Meurisse, A. Mamou-Mani, R. Caussé, B. Chomette and D. Sharp, Simulations of modal active control applied to the self-sustained oscillations of the clarinet, Acta Acustica united with Acustica 100 (6), 1149-1161 (2014)


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17. Y. Fu and P. Ciarletta, Buckling of a coated elastic half-space when the coating and the half-space have similar material properties, PROCEEDINGS OF THE ROYAL SOCIETY A, 471 (2015)


3. S. Benacchio, A. Mamou-Mani, B. Chomette and V. Finel, Active control and sound synthesis - two different ways to investigate the influence of the modal parameters of a guitar on its sound, The Journal of the Acoustical Society of America 139 (3), 1411-1419 (2016)
15. C. Giverso and P. Ciarletta, Tumour angiogenesis as a chemo-mechanical surface instability. SCIENTIFIC REPORTS, 6, 22610 (2016)
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