

Publications 2012

Nos REF	Titre	Auteur	Revue	Vol.	Issue	Pages
2012- 1	Iron topochemistry and surface reactivity of amphibole asbestos: relations with in vitro toxicity	A. Pacella*, GB Andreozzi, J. Fournier, L. Stievano, F. Giantomassi, G. Lucarini, MR. Rippon, A. Pugnali	Analytical and Bioanalytical Chemistry	402	2	871-881
2012- 2	Chiral Ammonium-Capped Rhodium(0) Nanocatalysts: Synthesis, Characterization, and Advances in Asymmetric Hydrogenation in Neat Water	E. Bile, E. Cortelazzo-Polisini, A. Denicourt-Nowicki*, R. Sassine, F. Launay, A. Roucoux*	ChemSuschem	5	1	91-101
2012- 3	Effects of organic and inorganic treatment agents on the formation of conversion layer on hot-dip galvanized steel: An X-ray photoelectron spectroscopy study	S. Le Manchet*, D. Verchere, J. Landoulsi	Thin Solid Films	520	6	2009-2016
2012- 4	Prebiotic chemistry	J.-F. Lambert*, M. Sodupe, P. Ugliengo	Chemical Society Reviews	41	16	5379-5374
2012- 5	Facile synthesis of palladium nanowires by a soft templating method	PF. Siril, A. Lehoux, L. Ramos, P. Beaunier, H. Remita*	New Journal of Chemistry	36	10	2135-2139
2012- 6	Effect of vanadium dispersion and of support properties on the catalytic activity of V-containing silicas	M. Piumetti, B. Bonelli*, P. Massiani, S. Dzwigaj, I. Rossetti, S. Casale, M. Armandi, C. Thomas, E. Garrone	Catalysis Today	179	1	140-148
2012- 7	Unravelling the enhanced reactivity of bulk CeO ₂ doped with gallium: A periodic DFT study	P. Quaino, O. Syzgantseva, L. Siffert, F. Tielens, C. Minot, M. Calatayud*	Chemical Physics Letters	519-20	-	69-72
2012- 8	Silane Layers on Silicon Surfaces: Mechanism of Interaction, Stability, and Influence on Protein Adsorption	N. Aissaoui, L. Bergaoui, J. Landoulsi, J.-F. Lambert, S. Boujday*	Langmuir	28	1	656-665
2012- 9	DFT study of the M segregation on MAu alloys (M = Ni, Pd, Pt) in presence of adsorbed oxygen O and O ₂	A. Dhoub, H. Guesmi*	Chemical Physics Letters	521		98-103
2012- 10	Chromium Oxide Species Supported on Silica: A Representative Periodic DFT Model	H. Guesmi, F. Tielens*	Journal of Physical Chemistry C	116	1	994-1001
2012- 11	Probing Acid-Base Properties in Group V Aluminum Containing Zeolites	A. Wojtaszek, M. Ziolk, F. Tielens*	Journal of Physical Chemistry C	116	3	246-2468
2012- 12	Enhanced selective nitroarene hydrogenation over Au supported on beta-Mo ₂ C and beta-MO ₂ C/Al ₂ O ₃	N. Perret, XD. Wang, L. Delannoy, C. Potvin, C. Louis, MA. Keane*	Journal of Catalysis	286	-	172-183
2012- 13	Transition-Metal-Free Catalysts for the Sustainable Epoxidation of Alkenes: From Discovery to Optimisation by Means of High Throughput Experimentation	W. Lueangchaichaweng, I. Geukens, A. Peeters, B. Jarry, F. Launay, J.-L. Bonardet, PA. Jacobs, PP. Pescarmona	Combinatorial Chemistry & High Throughput Screening	15	2	140-151
2012- 14	Identification and Location of Iron Species in Fe/SBA-15 Catalysts: Interest for Catalytic Fenton Reactions	C. Cornu, J.-L. Bonardet, S. Casale, A. Davidson*, S. Abramson, G. Andre, F. Porcher, I. Grcic, V. Tomasic, D. Vujevic, N. Koprivanac	Journal of Physical Chemistry C	116	5	3437-3448
2012- 15	Influence of the Ti content on the photocatalytic oxidation of 2-propanol and CO on TiSiBEA zeolites	S. Dzwigaj*, JP. Nogier, M. Che, M. Saito, T. Hosokawa, E. Thouverez, M. Matsuoka, M. Anpo	Catalysis Communications	19	/	17-20
2012- 16	Role of the Al source in the synthesis of aluminum magadiite	YF. Bi, J. Blanchard*, JF. Lambert, Y. Millot, S. Casale, SQ. Zeng, H. Nie, DD. Li	Applied Clay Science	57		71-78

2012-	17	On the promoting effect of Au on CO oxidation kinetics of Au-Pt bimetallic nanoparticles supported on SiO ₂ : An electronic effect?	<u>R.P. Doherty, JM. Krafft, C. Méthivier, S. Casale, H. Remita, C. Louis, C. Thomas*</u>	Journal of Catalysis	287		102-113
2012-	18	A Time-Resolved In Situ Quick-XAS Investigation of Thermal Activation of Fischer-Tropsch Silica-Supported Cobalt Catalysts	<u>JP. Hong, E. Marceau*, AY. Khodakov*, A. Griboval-Constant, C. La Fontaine, V. Briois</u>	Chemistry-A European Journal	18	10	2802-2805
2012-	19	Elaboration of Prussian Blue Analogue/Silica Nanocomposites: Towards Tailor-Made Nano-Scale Electronic Devices	<u>G. Fornasieri, M. Aouadi, E. Delahaye, P. Beaunier, D. Durand, E. Riviere, PA. Albouy, F. Brisset, A. Bleuzen*</u>	Materials	5	3	385-403
2012-	20	Ordered Nanostructures on a Hydroxylated Aluminum Surface through the Self-Assembly of Fatty Acids	<u>I. Liascukiene, N. Aissaoui, SJ. Asadauskas, J. Landoulsi*, JF. Lambert</u>	Langmuir	28	11	5116-5124
2012-	21	Lewis Acido-Basic Interactions between CO ₂ and MgO Surface: DFT and DRIFT Approaches	<u>D. Cornu, H. Guesmi*, JM. Krafft, H. Lauron-Pernot</u>	Journal of Physical Chemistry C	116	11	6645-6654
2012-	22	Drastic Au(111) Surface Reconstruction upon Insulin Growth Factor Tripeptide Adsorption	<u>V. Humblot*, A. Vallee, A. Naitabdi, F. Tielens, CM. Pradier</u>	Journal of The American Chemical Society	134	15	6579-6583
2012-	23	Intracellular biosynthesis of superparamagnetic 2-lines ferri-hydrate nanoparticles using Euglena gracilis microalgae	<u>R. Brayner*, T. Coradin, P. Beaunier, JM. Greneche, C. Djediat, C. Yepremian, A. Coute, F. Fievet</u>	Colloids and Surfaces B-Biointerfaces	93		20-23
2012-	24	Antibacterial surfaces developed from bio-inspired approaches	<u>K. Glinel*, P. Thebault, V. Humblot, C.-M. Pradier, T. Jouenne*</u>	Acta Biomaterialia	8	5	1670-1684
2012-	25	Effect of equal channel angular extrusion on wear and corrosion behavior of the orthopedic Ti-13Nb-13Zr alloy in simulated body fluid	<u>KS. Suresh, M. Geetha*, C. Richard, J. Landoulsi, R. Ramasawmy, S.Suwas, R. Asokamani</u>	Materials Science & Engineering C-Materials for Biological Applications	32	4	763-771
2012-	26	Surface Plasmon Resonance Biosensors Incorporating Gold Nanoparticles	<u>E.-E. Bedford, J. Spadavecchia, C.-M. Pradier*, F.-X. Gu*</u>	Macromolecular Bioscience	12	6	724-739
2012-	27	Bifunctional Polyoxometalates for Planar Gold Surface, Nanostructuration and Protein Immobilization	<u>D. Mercier, S. Boujday*, C. Annabi, R. Villanneau, C.-M. Pradier, A. Proust*</u>	Journal of Physical Chemistry C	116	24	13217-13224
2012-	28	Synthesis and Treatment Parameters for Controlling Metal Particle Size and Composition in Cu/ZnO Materials- First Evidence of Cu ₃ Zn Alloy Formation	<u>S. Derrouiche, H. Lauron-Pernot, C. Louis*</u>	Chemistry of Materials	24	12	2282-2291
2012-	29	Influence of the textural properties of porous aluminas on the reducibility of Ni/Al ₂ O ₃ catalysts	<u>F. Bentaleb, E. Marceau*</u>	Microporous and Mesoporous Materials	156		40-44
2012-	30	Elaboration of antibiofilm surfaces functionalized with antifungal-cyclodextrin inclusion complexes	<u>A Gharbi, V. Humblot, F. Turpin, CM. Pradier, C. Imbert, JM. Berjeaud*</u>	Fems Immunology and Medical Microbiology	65	2	257-269
2012-	31	Elaboration, characterization and properties of silica-based single-site heterogeneous photocatalysts	<u>M. Che, K. Mori, H. Yamashita</u>	Proceedings of The Royal Society A-Mathematical Physical and Engineering Sciences	468	2143	2113-2128
2012-	32	Selective catalytic reduction of NO on single site FeSiBEA zeolite catalyst: Influence of the C ₁ and C ₂ reducing agents on the catalytic properties	<u>J. Janas, W. Rojek, T. Shishido, S. Dzwigaj*</u>	Applied Catalysis B-Environmental	123		134-140
2012-	33	The past, present and future of heterogeneous catalysis	<u>I. Fechete, Y. Wang, J.-C. Vedrine*</u>	Catalysis Today	189	1	2-27
2012-	34	Silver species reduction upon exposure of Ag/Al ₂ O ₃ catalyst to gaseous ethanol: An in situ Quick-XANES study	<u>E. Sayah, C. La Fontaine, V. Briois, D. Brouri, P. Massiani*</u>	Catalysis Today	189	1	55-59

2012-	35	Surface chemistry and surface reactivity of fibrous amphiboles that are not regulated as asbestos	M. Fantauzzi, A. Pacella, <u>J. Fournier</u> , A. Gianfagna, GB. Andreozzi*, A. Rossi*	Analytical and Bioanalytical Chemistry	404	3	821-833
2012-	36	Chromium sites in zeolite framework: Chromyl or chromium hydroxyl groups?	<u>F. Tielens*</u> , MM. Islam, G. Skara, F. De Proft, T. Shishido, <u>S. Dzwigaj</u>	Microporous and Mesoporous Materials	159		66-73
2012-	37	A combined experimental and theoretical study of the simultaneous occupation of Si _{1a} and Si ¹ sites in fully dehydrated K-LSX	<u>H. Guesmi*</u> , <u>P. Massiani</u> , H. Nouali, JL. Paillaud	Microporous and Mesoporous Materials	159		87-95
2012-	38	Active and passive rotations with Euler angles in NMR	<u>Y. Millot</u> , PP. Man*	Concepts in Magnetic Resonance Part A	40A	5	215-252
2012-	39	Role of active components of an Ag/Al ₂ O ₃ /cordierite catalyst in selective reduction of NO by ethanol	<u>N. Popovich*</u> , Pl. Kiriienko, SA. Solov'ev, SN. Orlik, <u>S. Dzwigaj</u>	Theoretical and Experimental Chemistry	48	4	258-264
2012-	40	The influence of C ₁ and C ₂ organic reducing agents on catalytic properties of Co(II)-single site BEA zeolite in SCR of NO	J. Janas, W. Rojek, <u>S. Dzwigaj*</u>	Catalysis Today	191	1	32-37
2012-	41	Synthesis, characterization and catalytic activity of meso-niobium phosphate in the oxidation of benzyl alcohols	MC. Reis, SDT. Barros, ER. Lachter*, RAS. San Gil, JH. Flores, MIP. da Silva, <u>T. Onfroy</u>	Catalysis Today	192	1	117-122
2012-	42	Influence of the preparation procedure on the nature and environment of vanadium in VSiBEA zeolite: XRD, DR UV-vis, NMR, EPR and TPR studies	<u>R. Baran</u> , <u>Y. Millot</u> , <u>T. Onfroy</u> , <u>F. Averseng</u> , <u>JM. Krafft</u> , <u>S. Dzwigaj*</u>	Microporous and Mesoporous Materials	161		179-186
2012-	43	Elaboration of a reusable immunosensor for the detection of staphylococcal enterotoxin A (SEA) in milk with a quartz crystal microbalance	<u>M. Salmain</u> , <u>M. Ghasemi</u> , <u>S. Boujday*</u> , <u>C.-M. Pradier</u>	Sensors and Actuators B-Chemical	173		148-156
2012-	44	ZnO Oxygen Vacancies Formation and Filling Followed by in Situ Photoluminescence and in Situ EPR	<u>C. Drouilly</u> , <u>J.-M. Krafft</u> , <u>F. Averseng</u> , <u>S. Casale</u> , <u>D. Bazer-Bachi</u> , <u>C. Chizallet</u> , <u>V. Lecocq</u> , <u>H. Vezin</u> , <u>H. Lauron-Pernot</u> , <u>G. Costentin*</u>	Journal of Physical Chemistry C	116	40	21297-21307
2012-	45	Influence of the nitric acid treatment on Al removal, framework composition and acidity of BEA zeolite investigated by XRD, FTIR and NMR	<u>R. Baran</u> , <u>Y. Millot</u> , <u>T. Onfroy</u> , <u>JM. Krafft</u> , <u>S. Dzwigaj*</u>	Microporous and Mesoporous Materials	163		122-130
2012-	46	Co-Grafting of Amino Poly(ethylene glycol) and Magainin I on a TiO ₂ Surface: Tests of Antifouling and Antibacterial Activities	<u>J. Peyre</u> , <u>V. Humblot</u> , <u>C. Methivier</u> , JM. Berjeaud, <u>CM. Pradier*</u>	Journal of Physical Chemistry B	116	47	13839-13847
2012-	47	Bioconjugated gold nanorods to enhance the sensitivity of FT-SPR-based biosensors	<u>J. Spadavecchia*</u> , <u>S. Casale</u> , <u>S. Boujday</u> , <u>C.-M. Pradier</u>	Colloids and Surfaces B-Biointerfaces	100		1-8
2012-	48	Tuning the Porosity of Bimetallic Nanostructures by a Soft Templating Approach	A. Lehoux, L. Ramos, <u>P. Beaunier</u> , DB. Uribe, P. Dieudonne, F. Audonnet, A. Etcheberry, M. Jose-Yacaman, H. Remita*	Advanced Functional Materials	22	23	4900-4908
2012-	49	Adsorption of L-DOPA Intercalated in Hydrated Na-Saponite Clay: A Combined Experimental and Theoretical Study	<u>K. El Adraa</u> , <u>V. Timon</u> , <u>J.-F. Lambert</u> , <u>AR. Al-Rabaa</u> , <u>F. Jaber</u> , <u>M. Jaber</u> , <u>F. Tielens*</u>	Journal of Physical Chemistry C	116	50	26414-26421
2012-	50	Lipase-embedded silica nanoparticles with oil-filled core-shell structure: stable and recyclable platforms for biocatalysts	Y. Kuwahara, T. Yamanishi, T. Kamegawa, K. Mori, <u>M. Che</u> , H. Yamashita*	Chemical Communications	48	23	2882-2884
2012-	51	Mechanism of RuO ₂ Crystallization in Borosilicate Glass: An Original <i>in Situ</i> ESEM Approach	H. Boucetta*, R. Podor, L. Stievano, J. Ravau, <u>X. Carrier</u> , <u>S. Casale</u> , S. Gosse, A. Monteiro, S. Schuller	Inorganic Chemistry	51	6	3478-3489

2012-	52	New insights into the development of Bronsted acidity of niobic acid	V. Lebarbier, M. Houalla, <u>T. Onfroy*</u>	Catalysis Today	192	1	123-129
2012-	53	Surface Science Approach to the Solid-Liquid Interface: Surface-Dependent Precipitation of Ni(OH) ₂ on α -Al ₂ O ₃ Surfaces	<u>A. Tougerti</u> , I. Llorens, F. D'Acapito, E. Fonda, JL. Hazemann, Y. Joly, D. Thiaudiere, <u>M. Che</u> , <u>X. Carrier*</u>	Angewandte Chemie-International Edition	51	31	7697-7701
2012-	54	Contribution to the understanding of the formation mechanism of bimodal mesoporous MCM41-type silica with large defect cavities	C. Bernal, Claudia, M. Mesa, <u>M. Jaber</u> , JL. Guth, L. Sierra*	Microporous and Mesoporous Materials	153		217-226
2012-	55	Specific interactions of functionalised gold surfaces with ammonium perchlorate or starch; towards a chemical cartography of their mixture	<u>D. Mercier</u> , C. Mercader, S. Quere, L. Hairault, <u>C. Methivier</u> , <u>C.-M. Pradier*</u>	Applied Surface Science	258	24	9518-9525
2012-	56	Amine degradation in CO ₂ capture. I. A review	C. Guedard, D. Picq, <u>F. Launay</u> , P.-L. Carrette*	International Journal of Greenhouse Gas Control	10		244-270
2012-	57	Surface Plasmon Resonance Imaging: New Tool for Immunodiagnosics of Food Allergy	O. Chakra, N. Vollmer, <u>S. Boujday</u> , P. Poncet, H. Chardin, G. Peltre, <u>C.-M. Pradier</u> , H. Senechal	World Allergy Organization Journal	??	??	??
2012-	58	Quick identification of kuraridin, a noncytotoxic anti-MRSA (methicillin-resistant Staphylococcus aureus) agent from Sophora flavescens using high-speed counter-current chromatography	BCL. Chan, H. Yu, CW. Wong, SL. Lui, <u>C. Jolivalt</u> , C. Ganem-Elbaz, JM. Paris, B. Morleo, M. Litaudon, CBS Lau, M. Ip, KP. Fung, PC. Leung, QB. Han*	Journal of Chromatography B-Analytical Technologies in the Biomedical and Life Sciences	880		157-162
2012-	59	In vitro inhibitory properties of ferrocene-substituted chalcones and aurones on bacterial and human cell cultures	KN .Tiwari, JP. Monserrat, A. Hequet, C. Ganem-Elbaz, T. Cresteil, G. Jaouen, A. Vessieres, EA. Hillard*, <u>C. Jolivalt</u>	Dalton Transactions	41	21	6451-6457
2012-	60	Anticancer Activity of Silver-N-Heterocyclic Carbene Complexes: Caspase-Independent Induction of Apoptosis via Mitochondrial Apoptosis-Inducing Factor (AIF)	L. Eloy, AS. Jarrousse, ML. Teyssot, A. Gautier, L. Morel, <u>C. Jolivalt</u> , T. Cresteil*, S. Roland*	Chemmedchem	7	5	805-814
2012-	61	Nanocomposites magnétiques à base de silice préparés par des méthodes vertes : synthèse, propriétés et application dans le traitement de l'eau	S. Abramson*, <u>P. Beaunier</u> , S. Borrenszajn, V. Dupuis, L. Perrigaud, A. Bee, V. Cabuil	Materiaux &Techniques	100	3	221-239