Poster Presentations List

Sep. 8 (Tue): Category 1-7	
P-Tu-1-01	**Role of micromixing in elaboration of nanoparticles** *A. Kanaev, S. Labidi, M. Ben Amar, K. Chhor (Laboratoire des Sciences des Procédés et des Matériaux, CNRS, France)
P-Tu-1-02	**Bottom-up synthesis of large titanate nanosheets by aqueous solution process** *T. Ban, T. Nakagawa, Y. Ohya (Gifu University, Japan)
P-Tu-1-03	**Ultrasound-assisted synthesis of sol-gel materials under mild conditions: alumina and feria, with potential bio-applications** *A. Drozdov[1], O. Shapovalova[1], D. Avnir[2], V. Vinogradov[1] ([1]ITMO University, Russian Fed, [2]Hebrew University, Israel)
P-Tu-1-04	**Synthesis of organoalkoxysilanes with four different functional groups by exchange reaction** *M. Yoshikawa, Y. Komata, H. Wada, A. Shimojima, K. Kuroda (Waseda University, Japan)
P-Tu-1-05	**Withdrawn**
P-Tu-1-06	**Preparation of cyclic siloxanes indicating ionic liquid nature** *T. Kubo, Y. Kaneko (Kagoshima University, Japan)
P-Tu-1-07	**Withdrawn**
P-Tu-1-08	**Preparation of sol-gel derived lamellar-type polysilsesquioxane bearing carboxyl groups for intercalation and grafting reaction of organic compounds** *N. Idota[1], H. Ohshita[1], Y. Kawamura[1], A. Mehdi[2], B. Boury[2], Y. Sugahara[1] ([1]Waseda University, Japan, [2]Université Montpellier 2, France)
P-Tu-1-09	**Sol-gel process of obtain colloidal silica from fluorine silicates** *A. Vildanova[1], F. Yunusov[1], K. Akbarov[1], B. Kabulov[2], V. Kalyadin[1] ([1]National university of Uzbekistan, Uzbekistan, [2]State Unitary Enterprise "Fan va taraqqiyot", Uzbekistan)
P-Tu-1-10	**Preparation of zinc doped titanium dioxide powders and photocatalytic degradation for methylene blue** K. He, Y. Ang, *Q. Dong, W. Wang, Z. Lai (Beijing Building Construction Research Institute, Co., Ltd., China)
P-Tu-1-11	**Withdrawn**
P-Tu-1-12	**Employing basic tools to gain fundamental insight into the chemical nature of MTES and DMDEOS sol-gel systems** V. Vuillet A Ciles[1], K. Lionti[2], A. Brioude[1], *B. Toury[1] ([1]University of Lyon, France, [2]IBM Almaden, United States)
P-Tu-2-01	**Facile synthesis of m onodisperse AlN hollow microspheres** *J. Wan, X. Fan, X. Qiao, L. Wu (Zhejiang University, China)

P-Tu-2-02	**Sol-gel synthesis of amphiphilic silsesquioxane with two types of side-chain groups capable of forming reverse micelle** *A. Nagatomo, Y. Kaneko (Kagoshima University, Japan)
P-Tu-2-03	**Transparent and Robust Organosiloxane Hybrid Lamella Film as a Water Vapor Barrier Coating** *T. Hara, Y. Tokudome, R. Abe, S. Ozawa, M. Takahashi (Osaka Prefecture University, Japan)
P-Tu-2-04	**Biomimetic synthesis of nanostructured V_2O_5 films in aqueous solutions of gelatin** *T. Ojio, H. Uchiyama, H. Kozuka (Kansai University, Japan)
P-Tu-3-01	**Withdrawn**
P-Tu-3-02	**Growth of new Dion-Jacobson phase layer perovskite $CsBa_2Ta_3O_{10}$ crystals** *M. Hojamberdiev[1], M. Bekheet[2], H. Wagata[1], K. Yubuta[3], K. Domen[4], K. Teshima[1] ([1]Shinshu University, Japan, [2]Technische Universität Berlin, Germany, [3]Tohoku University, Japan, [4]The University of Tokyo, Japan)
P-Tu-3-03	**New approach in photovoltaic cell elaboration: interpenetrated networks of metal oxides and polymers for bulk heterojunctions** *N. Halttunen, L. Rozes, A. Pailleret (Université Pierre et Marie Curie, France)
P-Tu-3-04	**Dynamic cross-linking of POSS-pendanted polymer via cage scrambling mediated by fluoride ion** *A. Kameyama, K. Tsuchiya, H. Arai, Y. Ishida (Kanagawa University, Japan)
P-Tu-3-05	**Physico-chemical characterization and antibacterial properties of silver and cerium loaded urea crosslinked siloxane-polyethylene oxide hybrids** *L. Truffault, H. R. N. Salgado, C. V. Santilli, S. H. Pulcinelli (University of São-Paulo State, Brazil)
P-Tu-3-06	**Silane coupling agents as a molecular-size adhesive for covalent bond formation between metal plates and polymer films** *M. Hashizume, S. Mishima, S. Fukagawa, K. Iijima (Tokyo University of Science, Japan)
P-Tu-3-07	**Withdrawn**
P-Tu-3-08	**Preparation of ruthenadithiolene complex/polysiloxane hybrid film as a carbon monoxide detector** *S. Tsukada, T. Sagawa, T. Gunji (Tokyo University of Science, Japan)
P-Tu-3-09	**Withdrawn**
P-Tu-3-10	**3D-printable and flexible silica/PCL sol-gel hybrids for tissue regeneration** *F. Tallia[1], L. Russo[2], L. Gabrielli[2], J. P. Clark[3], J. V. Hanna[3], L. Cipolla[2], J. R. Jones[1] ([1]Imperial College London, United Kingdom, [2]University of Milano-Bicocca, Italy, [3]University of Warwick, United Kingdom)
P-Tu-3-11	**Thermoresponsive wrinkle formation on hybrid silica/poly(N-isopropylacrylamide) bilayered hydrogel for linear actuators** *H. Kuniwaki[1], Y. Tokudome[1], K. Suzuki[1,2], D. Carboni[2], G. Poologasundarampillai[3], M. Takahashi[1] ([1]Osaka Prefecture University, Japan, [2]Università di Sassari, Italy, [3]The University of

	Manchester, United Kingdom)
P-Tu-3-12	**Hybrid nano-composite double network hydrogels for cartilage tissue engineering applications** *A. Mohammed[1], J. Jones[1] ([1]Imperial College London, United Kingdom, [2]Qatar Foundation, Qatar)
P-Tu-3-13	**Synthesis and properties of novel organic-inorganic hybrid materials from metal alkoxide solutions containing cyclic acidic anhydrides** *H. Nakano, H. Kozuka, H. Uchiyama, M. Ochi (Kansai University, Japan)
P-Tu-3-14	**Withdrawn**
P-Tu-3-15	**Regular assembly of cage siloxanes via hydrogen bonding of silanol groups** *N. Sato, T. Abe, Y. Kuroda, H. Wada, K. Kuroda, A. Shimojima (Waseda University, Japan)
P-Tu-3-16	**Withdrawn**
P-Tu-3-17	**Thermally stable sol-gel siloxane hybrid materials fabricated by peroxide derived curing of vinyl/methyl oligosiloxane resins** *Y. Kim, Y. Lim, B-S. Bae (KAIST, South Korea)
P-Tu-3-18	**Withdrawn**
P-Tu-3-19	**Synthesis of SiO_2 embedded TiO_2 rich in superficial OH functionalized with para-aminobenzoic acid (PABA)** *M. L. Carrera Jota[1], M. García Hernández[1], E. Rivera Becerril[1], C. Flores Morales[3], H. I. Beltrán Conde[1], Á. Morales Ramírez[2], A. López Marure[2] ([1]UAM, Mexico, [2]IPN, Mexico, [3]UNAM, Mexico)
P-Tu-3-20	**Sol-gel silica hybrids synthesized with a high cross linking density methacrylate polymer, impact on the physical and structural properties** *A. Maçon[1], J. Chung[1], S. Page[2], J. Hanna[2], J. Jones[1] ([1]Imperial College London, United Kingdom, [2]The University of Warwick, United Kingdom)
P-Tu-3-21	**Synthesis and characterization of polyimide/silica hybrid films** *K. M. Jeong, M-C. Choi, P. K. Tapaswi, Y. H. Lee, C-S. Ha (Pusan National University, South Korea)
P-Tu-3-22	**Correlation between structure and corrosion protection of siloxane-PMMA hybrid coatings on aluminum AA6063T5 by molybdenum doping** *Victor Hugo Sarmento[1], Luzia Rejane Santos[1], Dilton Teixeira[2] and Giancarlo Salazar-Banda[3] ([1]Federal University of Sergipe, Brazil [2]State University of Alagoas, Brazil [3]Tiradentes University, Brazil)
P-Tu-3-23	**The thermal shock resisitance of silica sol-modified epoxy resin composite coating** *Y. Wu, X. Ma, H. Zhang (Shanghai Ys Information Technology Co.,Ltd., China)
P-Tu-3-24	**Hybrid materials based on tetrapyrrolic macrocycles and sol-gel matices** *M. Á. García-Sánchez[1], E. Salas-Bañales[1], L. A. Díaz-Alejo[1], R. I. Y. Quiroz-Segoviano[1], F. Rojas-González[1], S. R. Tello-Solís[1], V. De La Luz-Tlapaya[1], E. C. Menchaca-Campos[2]

	([1]Universidad Autónoma Metropolitana-Iztapalapa, Mexico, [2]Universidad Autónoma del Estado de Morelos, Mexico)
P-Tu-4-01	**Sol-gel processing of SiO_2-LaF_3 oxyfluoride nano-glass-ceramic materials** *Y. Castro[1], G. Gorni[2], S. Pelli[2], A. Duran[1] ([1]ICV (CSIC), Spain, [2]Applied Physics Institute Nello Carrara (IFAC-CNR), Italy)
P-Tu-4-02	**Fabrication and photoelectrochemical properties of CdSe quantum dot-sensitized TiO_2 nanotube arrays** *X. Yang, M. Huang (Tongji University, China)
P-Tu-4-03	**Experimental analysis and analytical modeling of the thermal conductivity of aerogel composite insulation** *A. Hoseini, C. Mccague, M. Andisheh-Tadbir, M. Bahrami (Simon Fraser University, Canada)
P-Tu-4-04	**Carbon fibre (CF)/epoxy resin (EP) composite laminates modified by carbon black (CB) and tungsten nanoparticles for X-ray shielding application** *D. Zhang, H. Hao, Y. Xue, Y. Chen (Institute of Process Engineering, Chinese Academy of Sciences, China)
P-Tu-4-05	**Withdrawn**
P-Tu-4-06	**Fabrication and characterization of three-dimensional braided carbon fiber reinforced mullite composites through sol-gel route** *Q. Ma, H. Liu, S. Liang (National University of Defense Technology, China)
P-Tu-4-07	**Thermodinamical properties of diacetate cellulose-silica nanocomposition materials** *A. Yarkulov[1], B. Umarov[1], N. Ashurov[2], M. Yunusov[2], B. Sagdullaev[1], K. Akbarov[1] ([1]National University of Uzbekistan, Uzbekistan, [2]Center of Physics and Chemistry of Polymers, Uzbekistan)
P-Tu-4-08	**Withdrawn**
P-Tu-4-09	**Controllable synthesis of aligned carbon nanotube/titanium dioxide hybrid fibers by atomic layer deposition** *M. Zu[1], H. Liu[1], H. Cheng[1], Q. Li[2] ([1]National University of Defense Technology, China, [2]Suzhou Institute of Nano-Tech and Nano-Bionics, China)
P-Tu-4-10	**Withdrawn**
P-Tu-4-11	**Sol-gel synthesis of hybrid nanoadsorbents for rare earths extraction and separation** *E. Polido legaria, S. Demirel topel, V. G. Kessler, G. A. Seisenbaeva (Swedish University of Agricultural Sciences, Sweden)
P-Tu-4-12	**Preparation and selectivity properties to amines of composite silica films** *S. Krutovertsev, A. Tarasova, L. Krutovertseva, O. Ivanova (JSC Ecological Sensors and Systems, Russian Fed)
P-Tu-4-13	**Nanocellulose-titania composite drug delivery systems by sol-gel approach** *O. Galkina[1,2], A. Agafonov[2], G. Seisenbaeva[1], V. Kessler[1] ([1]Swedish University of Agricultural Sciences, Sweden, [2]G. A. Krestov Institute of Solution

	Chemistry of the Russian Academy of Sciences, Russian Fed)
P-Tu-4-14	**Studies on the formation of vesupla-like structure of polymer-silica composite by foaming of poly(methylmethacrylate)/silicon alcoxide/CO_2 systems** *S. Yoda[1], Y. Yamaji[2], Y. Shimada[2], D. Kobayashi[2], A. Shono[2], Y. Takebayashi[1], K. Sue[1], T. Furuya[1], K. Otake[2] ([1]AIST, Japan, [2]Tokyo University of Science, Japan)
P-Tu-4-15	**Characterization of clay into recycled polystyrene matrix composites** *G. Hernández Padrón[1], D. Rangel Miranda[1], H. Chagolla Gaona[2], A. Blanco Hernández[3] ([1]Universidad Nacional Autónoma de México-CFATA, Mexico, [2]Instituto Tecnológico de Querétaro perteneciente al Tecnológico Nacional de México, Mexico, [3]Universidad Autónoma de Querétaro, Mexico)
P-Tu-4-16	**Fabrication of mesoporous Co_3O_4 from LP-FDU-12 via nanocasting route and effect of wall/pore size on their magnetic properties** H. Jin, X. Wang, *D. Jin, H. Ge (China Jiliang University, China)
P-Tu-4-17	**Withdrawn**
P-Tu-4-18	**Low-temperature synthesis of titanium oxide-gold nanoparticle composite** *T. Akiyama, T. Matsumoto, S. Banya, T. Oku (The University of Shiga Prefecture, Japan)
P-Tu-4-19	**Chitosan based polyelectrolyte hydrogels** *D. W.Kim[1], D. B.Lee[1], S. Yury[2], C. S.Ha[1] ([1]Pusan National University, South Korea, [2]Far-East Department Russian Academy of Sciences, Russian Fed)
P-Tu-4-20	**Sol-gel preparation of ZnO-La_2CoMnO_6 nanocomposite thin films based on spontaneous phase separation** *M. Saito, M. Hagiwara, S. Fujihara (Keio University, Japan)
P-Tu-4-21	**Withdrawn**
P-Tu-4-22	**Preparation and characterization of polyyne-containing SiO_2 gels** *K. Kojima, K. Sasaki, K. Inoue, T. Sanada (Ritsumeikan University, Japan)
P-Tu-4-23	**Withdrawn**
P-Tu-4-24	**Preparation, characterization and heat resistance of yellow iron oxide pigment coated with aluminium hydroxide** *G. Pan, F. Cao (Huzhou University, China)
P-Tu-4-25	**Cobalt, nickel, molybdenum and tungsten oxides-carbon nanocomposites synthesis by combination of sol-gel and sonochemical techniques** *K. Kotsareva[1], E. Trusova[1], A. Kirichenko[2] ([1]Baikov Institute of Metallurgy and Materials Science, RAS, Russian Fed, [2]Technological Institute for Superhard and Novel Carbon Materials, Russian Fed)
P-Tu-5-01	**Tailoring gamma-Al_2O_3 supports with specific silicon precursors** *V. Claude[1], M. Vilaseca[2], B. Heinrichs[1], S. Lambert[1] ([1]Université de Liège, ULg, Belgium, [2]Universitat Politècnica de Catalunya, Spain)
P-Tu-5-02	**Preparation and pore structure control of macroporous SnO_2 gel** *Y. Suzuki, N. Moitra, Z. Yang, K. Kanamori, K. Nakanishi (Kyoto University, Japan)
P-Tu-5-03	**Sol-gel technology as a seeding agent for Portland cement systems: compatibility studies** *M. Shakil, J. Holley, K. Paine, M. Ansell (University of Bath, United Kingdom)

P-Tu-5-04	**Synthesis of hierarchically macro/mesoporous titanium phosphate monolithic gels** *K. Yoneda, Y. Zhu, K. Kanamori, K. Nakanishi (Kyoto University, Japan)
P-Tu-5-05	**Withdrawn**
P-Tu-5-06	**Surface modification of mesoporous silica with bifunctional hydrosilanes and formation of metal nanoparticles** *T. Nakanishi[1], N. Moitra[1], K. Kanamori[1], K. Nakanishi[1], T. Asefa[2], S. Ichii[3], T. Shimada[3] ([1]Kyoto University, Japan, [2]Rutgers University, United States, [3]Nara National College of Technology, Japan)
P-Tu-5-07	**Functionalized SBA-15 for Li adsorption in water** *S. Y. Kim, S. S. Park, C-S. Ha (Pusan National University, South Korea)
P-Tu-5-08	**Hierarchically porous layered double hydroxide composites with size-controlled microcages for selective adsorption of oxyanions** *N. Tarutani[1], Y. Tokudome[1], K. Nakanishi[2], M. Takahashi[1] ([1]Osaka Prefecture University, Japan, [2]Kyoto University, Japan)
P-Tu-5-09	**Preparation of of porous composite gels and study on the adsorption of Ce(IV) ions** *X. Ding, J. Zhao, Y. Fu, C. Meng (Zhejiang University, China)
P-Tu-5-10	**Modified SBA-15 for VOCs removal** *J-S. Kim, S. S. Park, C-S. Ha (Pusan National University, South Korea)
P-Tu-5-11	**Mesostructured layered double hydroxide from nano-building blocks** *T. Morimoto, Y. Tokudome, N. Tarutani, M. Takahashi (Osaka Prefecture University, Japan)
P-Tu-5-12	**The functionalized biopolymer employed modified mesoporous silica nanoparticles; a Redox-sensitive drug delivery system** *K. H. Park, A. R. Sung, S. S. Park, C-S. Ha (Pusan National University, South Korea)
P-Tu-5-13	**Fabrication of Nb-doped single crystalline mesoporous TiO_2 by hard templating method** *Y. Shimasaki, M. Kitahara, Y. Kuroda, A. Shimojima, H. Wada, K. Kuroda (Waseda University, Japan)
P-Tu-5-14	**Textural Characteristics, Water Uptake and Proton Transport Properties Relationships in Nanoporous Silica Membranes prepared by Colloidal Sol-gel** *M. T. Colomer, F. Rubio (ICV-CSIC, Spain)
P-Tu-5-15	**Preparation of macroporous manganese oxide monolith from manganese salt via epoxide-mediated sol-gel route** *K. Matsuura, Y. Zhu, K. Kanamori, K. Nakanishi (Kyoto University, Japan)
P-Tu-5-16	**Preparation of hierarchically porous vanadium phosphate monolith with controlled pore parameters** *A. Tanaka, Y. Zhu, K. Kanamori, K. Nakanishi (Kyoto University, Japan)
P-Tu-5-17	**UiO-66 nanoparticles for efficient capture of alendronate and its mediated release** *X. Y. Zhu, J. Gu (East China University of Science and Technology, China)
P-Tu-6-01	**Tungsten-disulfide nanotubes to reinforce fragile silica aerogels** *G. Bar[1], A. Sedova[2], O. Goldbart[2], B. Achrai[2], I. Kaplan-Ashiri[2], R. Gvishi[1], H. D.

	Wagner[2], G. Eitan[1], R. Tenne[2] ([1]Soreq, Israel, [2]Weizmann Institute of Science, Israel)
P-Tu-6-02	**Withdrawn**
P-Tu-6-03	**Structure and property evolutions of carbon aerogels and their carbon fiber-reinforced composites at ultra-high temperatures** *J. Feng, Y. Jiang, Y. Lv, J. Feng (National University of Defense Technology (NUDT), China)
P-Tu-6-04	**Withdrawn**
P-Tu-6-05	**Withdrawn**
P-Tu-6-06	**Organofunctional polymethylsilesquioxane aerogels and xerogels** *C. Ehgartner, A. Feinle, N. Hüsing (Paris Lodron University Salzburg, Austria)
P-Tu-6-07	**Synthesis and comparison of silsesquioxane aerogels with different substituent groups** *T. Shimizu, K. Kanamori, K. Nakanishi (Kyoto University, Japan)
P-Tu-6-08	**Superinsulating organic aerogels and their silica-based hybrid counterparts** *A. Rigacci[1], S. Calas-Etienne[2], H. Sallée[3], C. Beauger[1], P. Achard[1] ([1]MINES ParisTech - PSL Research University, France, [2]Université de Montpellier, France, [3]CSTB, France)
P-Tu-6-09	**Nanoporous Al_2O_3 aerogel compact for high-temperature thermal insulation** *J. Li, J. Yang, H. Yang, C. Sun, Z. Hu (Aerospace Research Institute of Materials & Processing Technology, China)
P-Tu-6-10	**Sol-Gel derived Si-B-C-O aerogels with highly thermal stability** *J. Feng, J. Yin, Y. Jiang, J. Feng, C. Yue (National University of Defense Technology (NUDT), China)
P-Tu-6-11	**Sol-gel derived metal oxide aerogels with high thermal stability** *J. Shen, G. Zu (Tongji University, China)
P-Tu-6-12	**Estimation of pore structures for silica aerogels using different methods** *H-L. Yang[1], J-X. Yang[1], J-N. Li[1], R. Zhang[2], Z-J. Hu[1], C-C. Sun[1] ([1]Aerospace Research Institute of Materials & Processing Technology, China, [2]Shanghai Institute of Technology, China)
P-Tu-6-13	**Physicochemical properties of silica aerogels using sodium silicate by ambient pressure drying** *A. Pisal, V. R. Amirisetty (Shivaji University, India)
P-Tu-6-14	**Preparation of silica doped alumina aerogels and the high temperature thermal insulation properties** *Z. Zhang, W. Wang, X. Wu, G. Zu, J. Shen, A. Du (Tongji University, China)
P-Tu-6-15	**Withdrawn**
P-Tu-6-16	**Super black carbon aerogels induced by subwavelength anti-reflection architecture** *B. Zhou, W. Sun, A. Du, S. Huang, J. Tang (Tongji University, China)
P-Tu-6-17	**Preparation and mechanical properties of transparent aerogels from chloromethyltrimethoxysilane as a single precursor** *T. Kimura, T. Shimizu, K. Kanamori, K. Nakanishi (Kyoto University, Japan)

P-Tu-6-18	**Ultralow-Density, Transparent Boehmite Nanofiber Aerogels and Their Alumina Derivatives** *G. Hayase[1], K. Nonomura[2], K. Kanamori[2], G. Hasegawa[2], K. Nakanishi[2] ([1]Tohoku University, Japan, [2]Kyoto University, Japan)
P-Tu-7-01	**Withdrawn**
P-Tu-7-02	**Withdrawn**
P-Tu-7-03	**Switchable water adhesion on superhydrophobic surface from titanate nanotube brush** *K. Okada, Y. Tokudome, A. Nakahira, M. Takahashi (Osaka Prefecture University, Japan)
P-Tu-7-04	**Effects of the heating conditions on the refractive index gradient of TiO_2 multilayer films prepared by sol-gel method** *T. Sakamoto, H. Kozuka, H. Uchiyama (Kansai University, Japan)
P-Tu-7-05	**Preparation of the hard and low refractive index films with water and oil repellency** *R. Shinagawa, T. Fukui (KRI, Inc., Japan)
P-Tu-7-06	**Advanced silane coupling agents: from click chemistry on surfaces to more durable coatings applications** *J. Matisons, A. Maddox, J. Zazyczny, B. Arkles (Gelest Inc, United States)
P-Tu-7-07	**Low temperature gas barrier film formation of polysilazane-derived silica thin films on organic substrate using photo-irradiation** *T. Ohishi, K. Yanagida, H. Yamazaki (Shibaura Institute of Technology, Japan)
P-Tu-7-08	**Withdrawn**
P-Tu-7-09	**Residual stress of sol-gel-derived crystalline titania thin films: effects of the exposure to water vapor before firing** *S. Kitano, H. Kozuka, H. Uchiyama (Kansai University, Japan)
P-Tu-7-10	**Withdrawn**
P-Tu-7-11	**Water-repellency and hardness of polyfluorocarbon-silica hybrid thin films prepared using polysilazane as silica source** *K. Taira, H. Kozuka, H. Uchiyama (Kansai University, Japan)
P-Tu-7-12	**Preparation of films by recycled polystyrene / silica hybrids** G. Hernández Padrón[1], D. Rangel Miranda[1], *A. Blanco Hernández[2] ([1]UNAM, Mexico, [2]UAQ, Mexico)
P-Tu-7-13	**Hardness of alkoxide-derived metal oxide gel films: effects of fundamental processing parameters** *S. Sumida, H. Kozuka, H. Uchiyama (Kansai University, Japan)
P-Tu-7-14	**Sol-gel preparation of SiO_2 antireflective coatings for small-size LBO crystals** *X. Wang, B. Tian, Y. Niu, Z. Zhang, G. Wu, B. Zhou, J. Shen (Tongji University, China)
P-Tu-7-15	**Effect of the amount of HNO_3 and H_2O on the crystallization of TiO_2 films prepared by sol-gel method** *T. Bando, H. Uchiyama, H. Kozuka (Kansai University, Japan)
P-Tu-7-16	**Low CTE transparent glass-fabric reinforced hybrimer film impregnated with**

	thermally stable sol-gel synthesized siloxane resin *H.-Y. Kim[1], J. Jin[2], J.-Y. Bae[1], Y. Kim[1], B.-S. Bae[1] ([1]KAIST, South Korea, [2]UlSan University, South Korea)
P-Tu-7-17	**Preparation of mesoporous silica thin films with precisely controlled thickness by wet etching** *K. Susuki, M. Kobayashi, H. Wada, A. Shimojima, K. Kuroda (Waseda University, Japan)
P-Tu-7-18	**Transparent laminate nanocomposite films using self-assembled chitin nanofiber networks impregnated with sol-gel siloxane resin** J. J. Choi[1], J. Jin[2], *D. Lee[1], B-S. Bae[1] ([1]KAIST, South Korea, [2]University of Ulsan, South Korea)
P-Tu-7-19	**Design and preparation of abrasion-resistant SiO_2-TiO_2 multilayer antireflective coatings** *L. Ye[1], L. Yan[2], B. Xia[1], H. Lv[2], H. Yan[2], B. Jiang[1] ([1]Sichuan University, China, [2]China Academy of Engineering Physical, China)
P-Tu-7-20	**Porosity and densification of SiO_2 thin films prepared by PVP-assisted sol-gel method** *Y. Emi, H. Kozuka, H. Uchiyama (Kansai University, Japan)
P-Tu-7-21	**Methyltriethoxysilane (MTES) : tetraethoxysilane (TEOS) and phenyl triethoxysilane (PTES) : TEOS transparent barrier coatings for clean and corroded low carbon steel** *D. Vella, S. Abela, M. Grech (University of Malta, Malta)
P-Tu-7-22	**Effect of the heating rate on the crystallization and densification of TiO_2 thin films prepared by sol-gel method** *S. Mizuguchi, H. Uchiyama, H. Kozuka (Kansai University, Japan)
P-Tu-7-23	**Preparation of lead zirconate titanate thin films on plastic substrates by sol-gel-transfer technique** *K. Izutsu, H. Kozuka, H. Uchiyama (Kansai University, Japan)
P-Tu-7-24	**Preparation and gas permeation properties of amorphous silica-derived membranes with controlled network structure via anion doping method** *T. Matsutani[1], M. Kanezashi[1], H. Tawarayama[2], H. Nagasawa[1], T. Yoshioka[1], T. Tsuru[1] ([1]Hiroshima University, Japan, [2]Sumitomo Electric Industries Ltd, Japan)
P-Tu-7-25	**Pore size control and gas permeation properties of organosilica membranes for separation of hydrocarbon gases** *Y. Yoneda, M. Kanezashi, H. Nagasawa, T. Yoshioka, T. Tsuru (Hiroshima University, Japan)
P-Tu-7-26	**Titania thin film formation on silica particles using nanoscale surface water layer in hydrophobic organic solvents** *T. Endo, T. Kenmotsu, K. Torigoe, K. Sakai, M. Abe, H. Sakai (Tokyo University of Science, Japan)
P-Tu-7-27	**Living radical polymerization of styrene by ATRP initiator immobilized on glass surfaces**

	*K. Iwaida[1], S. Ichii[1], Y. Masui[1], K. Kanamori[2], T. Kamei[1], K. Nakanishi[2], T. Shimada[1] ([1]Nara National College of Technology, Japan, [2]Kyoto University, Japan)
P-Tu-7-28	**A detailed optical investigation of nanostructure ZnO:La films by sol gel method** *S. Ilican, Y. Caglar, M. Caglar (Anadolu University, Turkey)
P-Tu-7-29	**Preparation of nanostructure Sb doped ZnO films by sol gel method: A combined study by XRD, SEM and UV-vis** *M. Caglar, S. Ilican, Y. Caglar (Anadolu University, Turkey)
P-Tu-7-30	**Sol-gel derived indium oxides films: Structural and morphological study** *Y. Caglar, S. Ilican, M. Caglar (Anadolu University, Turkey)

Sep. 10 (Thu): Category 8-15	
P-Th-8-01	**Refined shape of expanded $BaTiO_3$ nanocubes by combined effects of organic additives in aqueous solutions** *Q. Ma, K-I. Mimura, K. Kato (AIST, Japan)
P-Th-8-02	**Sol-gel synthesis and characterisation of $Ni_xCo_{1-x}Fe_2O_4$ nanocrystals** *V. Bushkova, B. Ostafiychyk, I. Yaremiy (Vasyl Stefanyk Pre-Carpathian National University, Ukraine)
P-Th-8-03	**Hydrothermal formation and photoluminescence of spinel nanocrystals in the $ZnAl_2O_4$-$ZnGa_2O_4$ system** *K. Sakoda, M. Hirano (Aichi Institute of Technology, Japan)
P-Th-8-04	**Sol-gel synthesis and hydrothermal treatment of the yttrium nitrate, chloride and sulfate hydrolysis products** V. Avdin[1], I. Krivtsov[2], *E. Yudina[1], A. Frolova[1] ([1]South Ural State University, Russian Fed, [2]University of Oviedo, Spain)
P-Th-8-05	**Withdrawn**
P-Th-8-06	**Withdrawn**
P-Th-8-07	**Synthesis of TiO_2/SiO_2 nanofibers by using TEMPO oxidized cellulose nanofibers as templates** *S. Gunji, Y. Shimotsuma, K. Miura (Kyoto University, Japan)
P-Th-8-08	**Novel soft touch spherical beads from methyltrimethoxysilane and dimethyldimethoxysilane using easy aqueous solution reaction** *R. Tsuchiya[1], T. Tanaka[1], G. Hayase[2], K. Kanamori[3], K. Nakanishi[3] ([1]DAITO KASEI KOGYO CO., LTD., Japan, [2]Tohoku University, Japan, [3]Kyoto University, Japan)
P-Th-8-09	**The interaction of silica-polyelectrolyte as observed by SANS: particle size control and phase behaviour** J. Eastoe[1], C. James[1], P. Wyman[2], R. Habets[2], D. Reardon[2], *M. van Dijck[2], J. Scheerder[3], P. van den Thillart[3] ([1]University of Bristol, UK, [2] DSM Ahead B.V., The Netherlands, [3]DSM Coating Resins, | The Netherlands)
P-Th-9-01	**Preparation and characterization of highly (100) oriented PZT thin film by sol-gel method** *M. Kobayashi, T. Sakakibara (CANON INC., Japan)
P-Th-9-02	**Mesoporous lead zirconate titanate (PZT) films prepared by sol-gel techniques** *A. Sigov, K. Vorotilov, D. Seregin, N. Kotova (Moscow State Technical University of Radioengineering, Electronics and Automation, Russian Fed)
P-Th-9-03	**Fabrication of Mn-modified $BaTiO_3$ piezoelectric ceramics with a core-shell structure through a sol-gel coating**

	*A. Miyaura, M. Hagiwara, S. Fujihara (Keio University, Japan)
P-Th-9-04	**Citrate route for the preparation of multiferroic Ba_2CoTeO_6 material** *J. Popović[1], Ž. Skoko[2], I. Đerđ[1], S. Mal[1], M. Nuskol[1], S. Brkić[1] ([1]Ruđer Bošković Institute, Croatia, [2]University of Zagreb, Faculty of Science, Croatia)
P-Th-9-05	**Development of a temporary adhesive based on organic-inorganic hybrid materials for use in electronic device fabrication** *K. Sato, A. Kobayashi, T. Ogawa (Central Glass Co., Ltd., Japan)
P-Th-9-06	**Impact of complexing agent for the sol-gel synthesis of yttrium and terbium iron garnets** *O. Opuchovic, A. Kareiva (Vilnius University, Lithuania)
P-Th-9-07	**Synthesis and characterization of Mg/Al/Bi layered double hydroxides** *A. Prichodko, D. Sokol, A. Stanulis, A. Beganskiene, A. Kareiva (Vilnius University, Lithuania)
P-Th-9-08	**Preparation of ITO thin films from organic-additive-free aqueous solutions of metal salts by low-speed dip-coating** *T. Ito, H. Uchiyama, H. Kozuka (Kansai University, Japan)
P-Th-9-09	**Withdrawn**
P-Th-9-10	**Study on the flexibility of ceramic thin films fabricated on plastic substrates by sol-gel and transfer process** *R. Hamano, H. Kozuka, H. Uchiyama (Kansai University, Japan)
P-Th-9-11	**Effect of oxyanion incorporation on bias stability of aqueous sol-gel processed indium zinc oxide TFTs** *H. Park, Y. Nam, J. Jin, B-S. Bae (KAIST, South Korea)
P-Th-9-12	**Anatase thin films on plastic substrates fabricated by sol-gel and transfer process: effects of the types of plastics on adhesion** *N. Amano, H. Kozuka, H. Uchiyama (Kansai University, Japan)
P-Th-9-13	**Highly improved negative gate bias stability of sandwiched triple layer structure of sol-gel processed metal oxide thin film transistor** D. Kim, H. Park, *B-S. Bae (KAIST, South Korea)
P-Th-9-14	**Preparation of lithium-ion solid electrolyte $Li_{1.3}Al_{0.3}Ti_{1.7}(PO_4)_3$ thin films through a sol-gel route** *T. Kinoshita, M. Higuchi, K. Tadanaga (Hokkaido University, Japan)
P-Th-9-15	**Withdrawn**
P-Th-9-16	**Characterization of delafossite $CuMO_2$ (M=Al, Ga, In) films prepared by sol-gel method** *K. Uesugi, K. Obara, H. Fukuda (Muroran Institute of Technology, Japan)
P-Th-9-17	**Magnetoelectric and magnetooptical properties of iron-based ferromagnetic oxide films**

	*K. Yamaguchi, G. Kawamura, W. K. Tan, H. Muto, A. Matsuda (Toyohashi University of Technology, Japan)
P-Th-10-01	**Preparation and luminescence properties of carbon dot grafted $SrAl_2O_4$:Eu, Dy phosphor** *B. Lei, W. Li, H. Zhang, Y. Liu (South China Agricultural University, China)
P-Th-10-02	**New synthesis strategies of luminescent YVO_4:Eu nanoparticles with H_2O_2 selective sensing properties** *C. Ambard[1], N. Duée[1,2,3,4], F. Pereira[1], D. Portehault[2,3,4], B. Viana[5], K. Vallé[1], D. Autissier[1], C. Sanchez[2,3,4] ([1]CEA DAM, Le Ripault France, [2]Sorbonne Universités, UMPC Univ Paris 06, France, [3]CNRS, France, [4]Collège de France, France, [5]Institut de Recherche de Chimie Paris, CNRS, France)
P-Th-10-03	**Photoluminescent properties of $(Y,Ln)_3Al_5O_{12}$: Ce^{3+} (Ln = La, Gd, Tb) nanophosphors prepared by environmental-friendly wet process** *M. Iwasaki, A. Iseda, M. Imamura (Kinki University, Japan)
P-Th-10-04	**Sol-gel powders and thin films from Dy and Tb doped boro-phosphate systems** *B. A. Sava[1], L. Boroica[1], M. Elisa[2], R. C. C. Monteiro[3], O. Shikimaka[4], D. Grabco[4], R. Iordanescu[2], I. Feraru[2] ([1]National Institute for Laser, Plasma and Radiation Physics, Romania, [2]National Institute for Optoelectronics INOE2000, Romania, [3]CENIMAT/I3N, Faculty of Sciences and Technology, New University of Lisbon, Portugal, [4]Institute of Applied Physics, Academy of Sciences Moldova, Moldova)
P-Th-10-05	**Sol gel photonic materials based on rare earth doped niobium oxide: development, nano and microstructure and luminescence Properties** *R. R. Gonçalves[1], F. T. Aquino[1], R. R. Pereira[1], F. J. Caixeta[1], W. C. Muscelli[1], L. J. Q. Maia[2], S. J. L. Ribeiro[3], P. Goldner[4], A. Ferrier[4,5], M. Ferrari[6] ([1]Universidade de São Paulo, Brazil, [2]Universidade Federal de Goiás, Campus II, Brazil, [3]São Paulo State Univ -UNESP, Brazil, [4]Institut de Recherche de Chimie Paris, France, [5]UPMC Univ Paris 06, France, [6]CNR-IFN, Italy)
P-Th-10-06	**Synthesis and characterization of metal-organic precursor-derived SiAlON:Eu^{2+} phosphors** *R. Iwasaki, Y. Murata, Y. Shimokawa, Y. Daiko, S. Honda, Y. Iwamoto (Nagoya Institute of Technology, Japan)
P-Th-10-07	**New Eu^{3+} doped $Al_6Ge_2O_{13}$ photonic nanostructured materials through the sol gel process** *L. J. Q. Maia[1], F. M. Faria filho[1], R. R. Gonçalves[2], S. J. L. Ribeiro[3] ([1]Universidade Federal de Goiás-UFG, Brazil, [2]Universidade de São Paulo-USP, Brazil, [3]São Paulo State University-UNESP, Brazil)
P-Th-10-08	**Functional up-converting $SrTiO_3$:Er^{3+}/Yb^{3+} nanoparticles, structural features, particle size colour tuning and in vitro RBC cytotoxicity** *R. Pazik[1], M. Malecka[1], L. Marciniak[1], A. Ekner-Grzyb[2], L. Mrowczynska[2], R. Wiglusz[1]

	([1]Institute of Low Temperature and Structure Research, Poland, [2]Adam Mickiewicz University, Poland)
P-Th-10-09	**Withdrawn**
P-Th-10-10	**Sol-Gel synthesis of $YVO_4:Eu^{3+}$ particles utilizing biphasic solution systems and their optical properties** *K. Sugita, M. Hagiwara, S. Fujihara (Keio University, Japan)
P-Th-10-11	**Random laser based in glass capillary filled by rare earth nanoparticles** *J. M. Almeida Caiut[1], C. Cássia Alves[1], L. Gonçalves Justino[1], S. José Lima Ribeiro[2] ([1]Universidade de São Paulo / FFCLRP, Brazil, [2]São Paulo State University- UNESP, Brazil)
P-Th-10-12	**Erbium doped $Yb_3Al_5O_{12}$ thin films prepared by various techniques using sol-gel methods** *T. Hlásek[1], K. Rubešová[1], V. Jakeš[1], P. Nekvindová[1], J. Oswald[2] ([1]University of Chemistry and Technology Prague, Czech Republic, [2]Academy of Sciences of the Czech Republic, Czech Republic)
P-Th-10-13	**Thin layers of $ErNbO_4$ and $YbNbO_4$ - preparation and characterization** *V. Jakeš[1], V. Polák[1], K. Rubešová[1], T. Hlásek[1], J. Oswald[2] ([1]University of Chemistry and Technology Prague, Czech Republic, [2]The Academy of Sciences of the Czech Republic, Czech Republic)
P-Th-10-14	**Optically active thin layers prepared using polyvinylpyrrolidone polymer** *K. Rubešová[1], D. Mikolášová[1], T. Hlásek[1], V. Polák[1], V. Jakeš[1], J. Oswald[2] ([1]University of Chemistry and Technology, Czech Republic, [2]ASCR v.v.i., Czech Republic)
P-Th-10-15	**Using sol-gel derived TiO_2:Ho,Yb upconversion phosphors in dye sensitized solar cells** *Y-T. Nien, R-Y. Hsu (National Formosa University, Taiwan)
P-Th-10-16	**Preparation and luminescence properties of YAG phosphor microsphere** *L-A. Wu, X. Qiao, J. Wan, X. Fan (Zhejiang University, China)
P-Th-10-17	**Growth and physical properties of $CuYO_2$** *C-H. Chia, Y-H. Huang (National University of Kaohsiung, Taiwan)
P-Th-10-18	**Structural and optical studies of zinc aluminate doped with Cu^{2+} doped nanocrystals synthesized via citrate sol gel route** *S. V. Motloung, B. Dejene, O. Ntwaeaborwa, H. Swart (University of the Free State, South Africa)
P-Th-10-19	**Band gap tuning and enhanced NBE emission in sol-gel derived $Zn_{1-x}Cd_xO$ films** *N. Kumar, A. Srivastava (University of Lucknow, India)
P-Th-10-20	**Repeatable hologram formation in AgCuCl-doped organosilsesquioxane films** G. Kawamura, K. Ikeda, T. Ito, H. Muto, *A. Matsuda (Toyohashi University of Technology, Japan)
P-Th-10-21	**Preparation of Bragg fibers with air core and TiO_2-SiO_2 cladding by sol-gel method**

	*I. Barton, V. Matejec, J. Mrazek, O. Podrazky (Institute of Photonics and Electronics of the Czech Academy of Sciences, Czech Republic)
P-Th-10-22	**UV-curable adhesive material for bonding of optical components** *R. Gvishi, Y. Sintov, G. Sturm, Y. Glick, A. Englander (Soreq, Israel)
P-Th-10-23	**ZnO nano-structure thin film for up-down-shifting solar cell higher efficiency and biosensor applications** *I. Battisha[1], Y. Badr[2], H. Abd El Wahab[1], M. G. N. Ghanem[2], O. Nur[3], M. Willander[3], A. A. Salama[4], A. A. El Saeid[4] ([1]Physics Division, National Research Centre, Egypt, [2]Cairo University, Egypt, [3]Campus Norrköping, Linköping University, Sweden, [4]Al Azhar University, Egypt)
P-Th-10-24	**High performance titania based plasmonic crystals for hydrogen sensing** M. Cittadini, L. Brigo, E. Gazzola, F. Romanato, G. Brusatin, M. Guglielmi, *A. Martucci (University of Padova, Italy)
P-Th-10-25	**Z-scan results on amorphous and nanostructured SiO_2:DR1 films** *J. Garcia-Macedo[1], G. Mercado[1], I. Sotarriva[1], A. Franco[2] ([1]Universidad Nacional Autonoma de Mexico, Mexico, [2]Universidad Tecnologica Fidel Velazquez, Mexico)
P-Th-10-26	**Polysiloxane materials synthesized from sol-gel reaction of alkoxysilanes for LED encapsulants** *Y. Matsuno, K. Akiyama, W. Kawai, M. Seino (Central Glass Co., Ltd, Japan)
P-Th-10-27	**Enhanced photo-luminescence of CdX (X= S, Se, Te) Q-dots embedded in ordered mesoporous silica thin films** *D. Onna[1,2], M. L. Martínez ricci[1,2], S. Aldabe bilmes[1,2] ([1]University of Buenos Aires, Argentina, [2]National Council of Scientific and Technical Research (CONICET), Argentina)
P-Th-10-28	**Photochromic composite of Urethane-PDMS for laminated glass** K. M. F. R. De Aguiar[1], E. P. N. Ferreira[1], K. Rischka[2], *H. Imasato[1], U. P. F. Rodrigues[1] ([1]University of São Paulo, Brazil, [2]IFAM, Germany)
P-Th-10-29	**The roughness of TiO_2 and SiO_2 thin films prepared by the sol-gel method** *Ï. Polakova, M. Savelov, J. Vaclavik (Institute of Plasma Physics, Academy of Sciences of the Czech Republic, Czech Republic)
P-Th-11-01	**Influence of Cu dispersion on photocatalytic activity of Cu-doped titania prepared using binary metal alkoxide** *H. Nishikiori[1], T. Ikeda[1], R. Katayama[2], Y. Shimizu[2] ([1]Shinshu University, Japan, [2]Shinko Electric Industries Co., Ltd., Japan)
P-Th-11-02	**Facile preparation of nitrogen and lanthanum - codoped TiO_2/$SrTiO_3$ heterostructured photocatalyst with well-defined macroporous and bicrystalline framework** *O. Ruzimuradov[1,2], D. Mirkhamitova[2], S. Nurmonov[2], K. Nakanishi[3], R. Riedel[4] ([1]Turin Polytechnic University in Tashkent, Uzbekistan, [2]National University of

	Uzbekistan, [3]Kyoto University, Japan, [4]Technische Universitaet Darmstadt, Germany)
P-Th-11-03	**High-temperature heat-treatment of two kinds of highly Nb-doped TiO_2 nanoparticles prepared by sol-gel and thermal plasma methods** [*]T. Ishigaki[1], Y. Nakada[1], Y. Tsujimoto[2], C. Zhang[2], T. Uchikoshi[2] ([1]Hosei University, Japan, [2]National Institute for Materials Science, Japan)
P-Th-11-04	**Synthesis and photocatalytic activity of titania nanofibers** [*]D. Y. Lee[1], S. Son[1], C. Chun[1], M-H. Lee[2] ([1]Daelim University, South Korea, [2]KICET, South Korea)
P-Th-11-05	**Withdrawn**
P-Th-11-06	**Photoelectrochemical properties of porous CuO films prepared by sol-gel method** [*]K. Isobe, H. Uchiyama, H. Kozuka (Kansai University, Japan)
P-Th-11-07	**Solvothermal synthesis of mesoporous titania photocatalyst** [*]N. Khimich[1], A. Zdravkov[2], J. Kudryashova[2], M. Gorbunova[3] ([1]S.M. Kirov Military Medical Academy of Russian Ministry of Defense, Russian Fed, [2]Grebenshchikov Institute of Silicate Chemistry Russian Academy of Science, Russian Fed, [3]St. Petersburg State Technological University of Plant Polymers, Russian Fed)
P-Th-11-08	**Photoelectrochemical properties of TiO_2 nanotubes sensitized with Bi_2O_3 sol-gel films deposited by the dip-coating technique** [*]M. E. Niño Gómez, D. Rivera Osorio, L. J. Hoyos Rodriguez, A. F. Gualdrón Reyes, J. L. Ropero Vega (Universidad Industrial de Santander, Colombia)
P-Th-11-09	**Photoelectrochemical properties of WO_3 thin films prepared by low-speed dip-coating** [*]S. Igarashi, H. Uchiyama, H. Kozuka (Kansai University, Japan)
P-Th-11-10	**Sol-gel synthesis and characterization of photocatalytic TiO_2** A. Montenero, [*]I. Alfieri, L. Bergamonti, A. Lorenzi, P. P. Lottici, G. Predieri ([1]University of Parma, Italy)
P-Th-11-11	**V-doped TiO_2 sol-gel nanopowders with catalytic properties** [*]M. Zaharescu[1], I. Stanciu[2], L. Predoana[1], C. Anastasescu[1], D. Culita[1], S. Preda[1], J. Pandele cusu[1], C. Munteanu[1], A. Rusu[1], I. Balint[1] ([1]"Ilie Murgulescu" Institute of Physical Chemistry of the Romanian Academy, Romania, [2]Maritime Faculty, Romania)
P-Th-11-12	**Peroxo-mediated sol-gel procedures for preparation of high-performance metal oxide catalysts** I. Krivtsov[1], M. Ilkaeva[1], [*]V. Avdin[2], R. Morozov[2], S. Khainakov[1], J. R. García[1], E. Díaz[1], S. Ordóñez[3] ([1]University of Oviedo, Spain, [2]South Ural State University, Russian Fed)
P-Th-11-13	**Withdrawn**
P-Th-11-14	**Withdrawn**
P-Th-11-15	**Fluorescence and sensor properties of the silica xerogels incorporating organic dyes**

	M. Pilipenko, *A. Koshkin, M. Alfimov (Photochemistry Center RAS, Russian Fed)
P-Th-11-16	**Withdrawn**
P-Th-11-17	**Photocatalytic properties of sol-gel-derived TiO_2-based composites prepared by mechanical milling** *W. K. Tan, R. Murayama, Y. Daiko, K. Katagiri, H. Muto, G. Kawamura, A. Matsuda (Toyohashi University of Technology, Japan)
P-Th-11-18	**Preparation of vanadium-doped TiO_2 neutral sol and its photocatalytic application under visible light irradiation** *B. Moongraksathum, J-Y. Chang, Y-W. Chen (National Central University, Taiwan)
P-Th-12-01	**Sol-gel derived 58S bioactive glasses containing strontium and the effect of phosphate precursor on structure-property relationships** *S. Lee[1], G. Poologasundarampillai[2], A. Maçon[3], T. Kasuga[1], J. R. Jones[3] ([1]Nagoya Institute of Technology, Japan, [2]University of Manchester, United Kingdom, [3]Imperial College London, United Kingdom)
P-Th-12-02	**Withdrawn**
P-Th-12-03	**The preparation of macroporous microspheres containing mesopoous bioactive glass nanofibers** *F.-Y. Hsu, H-W. Hsu (National Taiwan Ocean University, Taiwan)
P-Th-12-04	**Influence of calcium salt addition on bioactive glass nanospheres** *K. Zheng, Q. Chen, N. Taccardi, V. R. R. Marthala, M. Hartmann, A. R. Boccaccini (University of Erlangen-Nuremberg, Germany)
P-Th-12-05	**Withdrawn**
P-Th-12-06	**Luminescent spherical particles of SiO_2-CaO glass prepared by sol-gel method** A. Lukowiak[1], *J. Krzak[2], B. Borak[2], J-M. Nedelec[3] ([1]PAS, Poland, [2]Wroclaw University of Technology, Poland, [3]ICCF, France)
P-Th-12-07	**Enhancing mechanical properties of sol-gel hybrids by control of polymer architecture** *J. Chung[1], Y. Fujita[2], T. Georgiou[1], J. Jones[1] ([1]Imperial College London, United Kingdom, [2]Nagoya Institute of Technology, Japan)
P-Th-12-08	**Withdrawn**
P-Th-12-09	**Degradation of p-nitrophenol and bacteria with TiO_2 xerogels sensitized in situ with tetra(4-carboxyphenyl)porphyrins** *L. Tasseroul, S. Lambert, C. Páez, S. Hiligsmann, P. Thonart, B. Heinrichs (University of Liège, Belgium)
P-Th-12-10	**Withdrawn**
P-Th-12-11	**Sol-gel derived titania nanoparticles for enhanced plant protection** *M. N. G. Palmqvist, S. Bejai, J. Meijer, G. Seisenbaeva, V. Kessler (Swedish University of Agricultural Science, Sweden)
P-Th-12-12	**Protein micro- and nano-capsules for biomedical applications** *A. Cavaco-Paulo[1], J. Fu[2]

	([1]Minho, Portugal, [2]Jiangnan, China)
P-Th-12-13	**Withdrawn**
P-Th-12-14	**Withdrawn**
P-Th-12-15	**Preparation and characterization of novel thermosensitive chitosan/silk fibroin/glycerophosphate hydrogels** *J. Wu (Huazhong University of Science and Technology, China)
P-Th-12-16	**Hydroxyapatite or Calcite: How does physiological proteins influence the type, mechanism and kinetics of their formation?** *G. Poologasundarampillai[1], M. Boix alberich[3], P. Lee[1], R. Martin[4], D. Clarke[5], J. Jones[2] ([1]University of Manchester, United Kingdom, [2]Imperial College, United Kingdom, [3]University of Mons, Belgium, [4]Aston University, United Kingdom, [5]STFC Rutherford Appleton Laboratory, United Kingdom)
P-Th-12-17	**Materials for regenerative medicine: nano-apatites** *R. Wiglusz (Polish Academy of Sciences, Poland)
P-Th-13-01	**Macromolecular fingerprinting in sol-gel materials for rapid bacterial recognition in water samples via QCM detection** *L. Parahovnik, J. Starosvetsky, D. Starosvetsky, R. Armon (Technion-Israel Institute of Technology, Israel)
P-Th-13-02	**Withdrawn**
P-Th-13-03	**An efficient approach for heavy metal ions removal using thiol functional cobalt ferrite nanoparticles** B. Viltužnik [1, *]A. Lobnik[1,2], B. Viltužnik[1], A. Košak[1,2] ([1]Institute for Environmental Protection and Sensors, Slovenia, [2]University of Maribor, Faculty of Mechanical Engineering, Centre for Sensor Technology, Slovenia)
P-Th-13-04	**Functional sol-gel hybrids for environmental applications: a molecularly imprinted strategy** *D. Carboni[1], L. Malfatti[1], A. Pinna[1], B. Lasio[1], Y. Tokudome[2], M. Takahashi[2], P. Innocenzi[1] ([1]University of Sassari, Italy, [2]Osaka Prefecture University, Japan)
P-Th-13-05	**Synthesis and characterization of aminosilane functionalized silica particles for adsorption of lead(II) and mercury(II) ions from aqueous solutions** M. Bauman[1], A. Košak[2], *A. Lobnik[2] ([1]IOS, Institute for Environmental Protection and Sensors, Ltd., Slovenia, [2]University of Maribor, Faculty of Mechanical Engineering, Slovenia)
P-Th-13-06	**Withdrawn**
P-Th-13-07	**Aerogels for energy conversion (Fuel Cells and water splitting)** *C. Beauger, S. Berthon-fabry, A. Rigacci, P. Achard (MINES ParisTech, France)
P-Th-13-08	**Synthesis of TiO_2 colloidal solution via microwave-assisted solvothermal process for the use of photoanode in dye-sensitized solar cells** *Y. Wu, C-Y. Tsai (National Cheng-Kung University, Taiwan)

P-Th-13-09	**Withdrawn**
P-Th-13-10	**Photochatalytic activity of metal-titanium dioxide hybrid nanotubes fabricated by sol-gel process in organogel** *M. Suzuki, Y. Kato, K. Hanabusa (Shinshu University, Japan)
P-Th-13-11	**Evaluation of surface plasma treatment on sol gel TiO_2 electrodes for Dye Sensitized Solar Cells** *M. Massi[1,2], E. A. N. Simonetti[1], E. Saito[2], R. S. Moraes[1], A. Da Silva Sobrinho[1], D. M. G. Leite[1], G. P. Thim[1] ([1]Technological Institute of Aeronautics, Brazil, [2]Federal University of São Paulo, Brazil)
P-Th-13-12	**Fabrication of metal-titanium dioxide hybrid helical nanotubes and their photocatalytic activities** *R. Takane, S. Oi, K. Hanabusa, M. Suzuki (Shinshu University, Japan)
P-Th-13-13	**Multilayer broadband anti-reflective and easy-to-clean porous sol-gel coatings for photovoltaics** *C. Agustin, J. A. Sanchez-Garcia, N. Yurrita, M. Machado, M. Brizuela, O. Zubillaga (TECNALIA, Spain)
P-Th-13-14	**Au nanoparticles-mesoporous SiO_2-TiO_2 composites for highly efficient photocatalyses** *T. Okuno, G. Kawamura, H. Muto, A. Matsuda (Toyohashi University of Technology, Japan)
P-Th-13-15	**Withdrawn**
P-Th-13-16	**Withdrawn**
P-Th-13-17	**Sol-gel synthesis of $Li_{7-x}La_3Zr_{2-x}NbxO_{12}$ solid electrolyte at low temperature. Effect of glass additives on relative density and Li-ion conductivity** *N. C. Rosero Navarro, T. Yamashita, A. Miura, M. Higuchi, K. Tadanaga (Hokkaido University, Japan)
P-Th-13-18	**Lithium vanadium oxide mesoporous thin films as electrodes for lithium-ion batteries: influence of structuring agents and lithium on soft-templating synthesis** *S. Caes, J. C. Arrebola, R. Cloots, B. Vertruyen, F. Boschini ([1]University of Liège, Belgium)
P-Th-13-19	**Hydrogen affinity of Ni-doped amorphous aluminosilicate** *S. Saito, Y. Daiko, S. Honda, Y. Iwamoto (Nagoya Institute of Technology, Japan)
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