

ICMF12 Poster Presentation Program

Monday, 2 nd August 2010		
Poster Session 1 (17:10 – 18:40)		
PS1-1237	“Preparation of magnetite aqueous dispersion for magnetic fluid hyperthermia”	Japan
	T. Kikuchi, R. Kasuya, S. Endo, A. Nakamura, T. Takai, N. Metzler-Nolte, B. Jeyadevan	
PS1-1041	“Structural and magnetic characterizations of thermosensitive magnetic fluids”	India
	R. Desai, R. V Upadhyay, V. Davariya, R. V. Mehta	
PS1-1057	“Distribution of magnetic fluid’s nano-magnetic particles in a magnetic field”	China
	Y. Li, Q. Yuan, X. Li	
PS1-1066	“Ultrasonic study of elastic properties of magnetic nanoparticles water suspension”	Poland
	A. Józefczak, A. Skumiel	
PS1-1068	“Size-modulation of thermally-annealed nanosized cobalt ferrite particles”	Brazil
	M. A. G. Soler, P. P. C. Sartoratto, T. M. Lima, F. L. R Silva, T. V. Trufini, V. K. Garg, A. C. Oliveira, P. C. Morais	

PS1-1082	“Dynamic magnetic properties of monodispersed Fe ₃ O ₄ nanomagnetic particles”	India
	K. Parekh, R. V. Upadhyay	
PS1-1117	“Orientational behavior of an assembly of superparamagnetic rods”	France
	F. Jérôme, B. Frka-Petesic, O. Sandre, J. F. Berret, R. Perzynski, V. Dupuis,	
PS1-1121	“Induced size effect on Ni doped Nickel Zinc Ferrite nanoparticles”	India
	A. Kumar, Annveer, M. Arora, M.S. Yadav, R. P. Pant	
PS1-1158	“Effect of co-precipitation temperature on co-ferrite nanoparticles suitable for ferrofluid”	India
	S. Kumar, A. Singh, V. Kumar, M. S. Yadav, R. P. Pant	
PS1-1161	“SAXS studies of iron oxide nanoparticles in solution”	Russia
	E. V. Shtykova, P. V. Konarev, L. M. Bronstein, D. I. Svergun	
PS1-1168	“Synthesis and spectral studies of Co _{1-x} Zn _x Fe ₂ O ₄ of transformer oil based magnetic fluid”	India
	S. Sendhilnathan, G. Vaidyanathan	
PS1-1182	“Technology of the magnetic fluids production on the bases of disperse medium with low pressure of saturated vapor”	Belarus
	Y. YangZhi, L. Suloeva, A. Reks	

PS1-1184	“Small angle neutron scattering analysis of ferrofluid based elastomer microstructure”	Romania
	M.BalasoIU, I.Bica, V.T. Lebedev, L.Almasy, A.I.Kuklin	
PS1-1186	“Preparation and characterization of Fe ₃ O ₄ @Au nanoparticles used as precursor of ferrofluids”	China
	D. Li, C. Ruan, Z. Zhang, S. Zhang	
PS1-1201	“Enhanced thermal conductivity by Mn-Zn ferrite ferrofluids”	Korea
	K. Cho, M. E. Ju, K. Parekh, H. S. Lee	
PS1-1202	“Influence of the composition and temperature of concentrated magnetic fluids on their electrophysical properties for different frequencies of the electric field”	Belarus
	V. Zubko, A. Lesnikovich, D. Zubko	
PS1-1204	“Local structure of polymeric ferrogels”	France
	J.A.Galicia, F. Cousin, E.Dubois, O. Sandre, V. Cabuil, R. Perzynski	
PS1-1218	“Exchange bias properties and surface spin freezing in magnetic nanoparticles”	Brazil
	F. G. Silva, R. Aquino, V. Dupuis, J. Depeyrot, F. A. Tourinho, R. Perzynski	

PS1-1224	“Comparison of various synthesis methods of magnetic nanoparticles, and of the various experimental methods used for their characterization”	Switzerland
	L. Almasy, U. Gasser, V. Malik, K. Parekh, D. E. Creanga, J. Gubicza, L. Vekas, P. Schurtenberger	
PS1-1075	“Lattice Boltzmann simulation for magnetic fluids in porous medium”	China
	X. R. Zhang, L. C. Jin, X. D. Niu, H. Yamaguchi	
PS1-1118	“Thermomagnetic convection in the high-speed magnetofluid shaft seal”	Belarus
	M. S. Krakov, I. V. Nikiforov	
PS1-1123	“Heat capacity of magnetic liquids and high disperse iron oxides under applied magnetic fields”	Russia
	V.V. Korolev, I.M. Arefyev, D.V. Korolev.	
PS1-1126	“Energy transport velocity in magnetic colloids”	India
	H. Bhatt, R. Patel, R. V. Mehta	
PS1-1131	“Onset of convection in magnetic fluids”	Russia
	A. A. Bozhko, G. F. Putin	
PS1-1147	“Natural convection of magnetic fluid in a rectangular hele-shaw cell of different aspect ratios”	Taiwan, R.O.C.
	C.-Y. Wen, R.T. Tsai, K.-P. Leong	

PS1-1149	“Heat dissipation characteristics of magnetite nanoparticles and their application to macrophage cells”	Japan
	R. Kasuya, T. Kikuchi, H. Mamiya, K. Ioku, S. Endo, A. Nakamura, T. Takai, B. Jeyadevan	
PS1-1170	“Thermodynamic properties of concentrated magnetic fluids”	Russia
	E. A. Elfimova, Y. A. Epifanov, A. O. Ivanov, T. Cebo, P. J. Camp	
PS1-1208	“Numerical estimation of heat diffusion characteristics of magnetite nanoparticles under intravital conditions”	Japan
	H. Nakamura, M. Suto, R. Kasuya, K. Maruta, B. Jeyadevan	
PS1-1238	“Effect of magnetic field on heat transfer in rectangular duct flow of a magnetic fluid”	Japan
	M. Motozawa, J. Chang, T. Sawada, Y. Kawaguchi	
PS1-1239	“Experimental study on convective heat transfer of nanofluids in a solar energy system”	China
	Y. Cao, X. R. Zhang, H. Yamaguchi	
PS1-1007	“Improvement of the limit torque for the torque limiter with magnetic rheological fluid”	Japan
	N. Umehara, S. Kita	

PS1-1029	“Spin travelling wave pump on magnetic fluid”	China
	Z. Meng, Z. Jibin, S. Jing, Q. Ming	
PS1-1030	“Magnetic enhancement of light transmitted through a-FeOOH based colloid films”	China
	A. Wang, J. Li, H. Miao, Y. Lin, X. Liu, Q. Zhang, P. Chen	
PS1-1039	“The increase of the working gap in magnetic fluid seals of bearing units for large-size electrical engines”	Ukraine
	O. Radionov, A. Gurskyi, O. Vinogradov, O. Kazakutsa	
PS1-1104	“Investigation of working characteristics of combined vibration protective magnetic fluid devices”	Belarus
	Chernobai V., Suloeva L., Trusevich E., Labcovich O.	
PS1-1127	“Experimental study on micropump using reciprocating motion of magnetic ball covered with magnetic fluid”	Japan
	H. Kumamaru, S. Okamoto, K. Arimoto, K. Itoh, Y. Shimogonya	
PS1-1129	“Experimental study of a dynamics of the magnetic fluid free surface in the high speed seal”	Belarus
	S. Pogirnitskaya, V. Chernobai	
PS1-1178	“Analysis of driving capacity on traveling wave pump of magnetic fluid”	China
	Z. Meng, Z. Jibin, H. Jianhui, X. Yongxiang	

PS1-1185	“The design and experimental study on the composite seals of magnetic fluid seal”	China
	D. Li, X. He	
PS1-1187	“Study on the seal of tank panoramic sight with magnetic fluid”	China
	L. Decai, C. Ruan, C. Yan, H. Ruican	
PS1-1189	“Study on magnetic fluid static seal of large gap”	China
	D. Li, C. Ruan, X. Zhang, R. Hao	
PS1-1226	“Analysis of a liquid sloshing of a tuned magnetic fluid damper for Single and co-axial cylindrical containers”	Japan
	K. Ohno, H. Suzuki, T. Sawada	
PS1-1230	“New polishing method using water-based slurry under AC. electric field for glass substrate”	Japan
	T. Kusumi, H. Ikeda, Y. Sato, Y. Akagami, N. Umehara, T. K. Doi	
PS1-1255	“Ferrofluid based temperature sensor”	India
	V. Kumar, M. S. Yadav, R. P. Pant	
PS1-1108	“Effects of sweep rates of external magnetic fields on the labyrinthine Instabilities of miscible magnetic fluids”	Taiwan, R.O.C.
	C.-Y. Wen, J.-Z. Lin, M.-Y. Chen, L.-Q. Chen, T.-K. Liang	

Tuesday, 3 rd August, 2010		
Poster Session 2 (17:25 – 18:25)		
PS2-1046	“On the shape of a magnetoc fluid meniscus between two vertical plates”	Brazil
	Y.D. Sobral, O.R.E. Paz-y-Puente, H.L.G. Couto, F.R. Cunha	
PS2-1076	“Flowing of magnetic fluid with free surface and drop formation”	Slovakia
	M. Síkora, T. Sabadoš, M. Šviková, M. Timko	
PS2-1095	“Deformation of a layer of ferrofluid, lying on a liquid substrate, subjected to the action of the magnetic field”	Russia
	C.A. Bushueva, K.G. Kostarev, A.V. Lebedev	
PS2-1113	“Dynamics of the free surface of the magnetic fluid containing cylindrical ferromagnetic body”	Russia
	V.A. Naletova, V.A. Turkov, A.V. Rozin, D.A. Pelevina	
PS2-1150	“A new method of showing magnetic field based on ferrofluid”	China
	Y. Qingxin, F. Yanqing, S. Qiao, L. Zhisheng, L. Xuehui	
PS2-1203	“Derivation of the amplitude equation for the Rosensweig instability”	Germany
	S. Bohlius, H. R. Brand, H. Pleiner	

PS2-1222	“Bubbles generation mechanism in magnetic fluid and its control by an applied magnetic field”	<i>Romania</i>
	F. D. Stoian, S. Holotescu, L. Vekas	
PS2-1026	“Amino modulation of nanosized magnetite particles: A new approach using condensation of alkoxysilanes”	<i>Brazil</i>
	P.C. Morais, J.A.H. Coaquira, A.C. Oliveira, V.K. Garg, A.F.R. Rodriguez, J.G. Santos, R.F.C. Marques, T.P. Costa, R. Bini, M. Jafelicci	
PS2-1096	“Radiation stability of biocompatible magnetic fluid”	<i>Slovakia</i>
	N. Tomasovicova, I. Haysak, M. Koneracka, J. Kovac, M. Timko, V. Zavisova, A. Okunev, A. Parlag, A. Fradkin, P. Kopcansky	
PS2-1100	“Structural transitions in nematic liquid crystals doped with magnetite functionalized single walled carbon nanotubes”	<i>Slovakia</i>
	Z. Mitroova, M. Koneracka, N. Tomašovičova, M. Timko, J.Jadzyn, I. Vavra, N. Eber, K. F.Csorba, T. T. Katona, A. Vajda, P. Kopčansky	
PS2-1103	“The prepare and property of iron-nitride based magnetic fluid”	<i>China</i>
	G.F. Dong, Q. Sun, X.H. Li	

PS2-1152	“New developments for structure analysis of polydisperse ferrofluids by contrast variation technique in small-angle neutron scattering”	<i>Russia</i>
	A.V. Feoktystov, M.V. Avdeev, V.M. Garamus, R. Willumeit, V.L. Aksenov, L.A. Bulavin, L. Vékás	
PS2-1159	“Structural features of free surfactant solutions used in stabilization of ferrofluids”	<i>Russia</i>
	V. I. Petrenko, M. V. Avdeev, V. M. Garamus, L. Almasy, V. L. Aksenov, L. A. Bulavin, L. Rosta, G. Lancz, P. Kopčanský, L. Vékás	
PS2-1183	“Experimental investigation of dipolar interaction in suspension of magnetic nanoparticles”	<i>Germany</i>
	D. Eberbeck, L. Trahms	
PS2-1191	“Antifungal activity of multifunctional Fe ₃ O ₄ -Ag nanocolloids”	<i>India</i>
	B. Chudasama, A. K Vala, N. Andhariya, R. V. Upadhyay, R. V. Mehta	
PS2-1206	“Under-field structure and dynamics of ferroglasses”	<i>France</i>
	E. Wanderman, Y. Chushkin, E. Dubois, V. Dupuis, A. Robert, R. Perzynski	

PS2-1207	“Synthesis and design of functionalized magnetic nanocolloids for water pollution remediation”	<i>Brazil</i>
	A. F. C. Campos, M. A. Ferreira, E. P. Marinho, F. A. Tourinho, J. Depeyrot	
PS2-1058	“Ac-Susceptibility study in rare earth substituted magnetite ferrofluids.”	<i>India</i>
	R. V. Upadhyay, K. Parekh, A. Banerjee, K. Kumar,	
PS2-1263	“Ac susceptibility measurements of cobalt ferrite nanoparticles in polymer melts”	<i>USA</i>
	S.Sierra, C. Rinaldi	
PS2-1112	“Model of a thin rod with a magnetizable viscoelastic composite”	<i>Germany</i>
	V.A. Naletova, K. Zimmermann, I. Zeidis, V.A. Turkov, S.A. Kalmykov	
PS2-1120	“Synthesis and characterization of CNT – Fe ₃ O ₄ composites”	<i>India</i>
	A.Singh, S. Rath, C. Lal, M. Arora, R. P. Pant	
PS2-1172	“Field-induced deformation of magnetic soft composites”	<i>Israel</i>
	K. Morozov, M. Shliomis, H. Yamaguchi	
PS2-1180	“Centrifugation of dilute ferrofluids”	<i>Russia</i>
	E.V. Lakhtina	

PS2-1200	“Soft magnetic thermoreversible organogels”	<i>Germany</i>
	M. Krekhova, G. Lattermann, T. Lang, R. Richter	
PS2-1006	“Functionalized superparamagnetic nanoparticles for highly-efficient gene delivery”	<i>China</i>
	X. Wang, B. Chen, S.Kan, L. Zhao, X. Zhang, J. Tang	
PS2-1013	“Ultra-high-sensitivity detection in tumour bio-markers via immunomagnetic reduction using magnetic nanoparticles”	<i>Taiwan, R.O.C.</i>
	C. Y. Hong, S.Y. Yang, H.E. Horng, H.C.Yang, K.W. Huang	
PS2-1045	“Investigations on effect of iron oxide nanoparticles on tolerance and removal of arsenic by a facultative marine fungus <i>Aspergillus flavus</i> ”	<i>India</i>
	A. K.Vala, N. Andhariya, B. N. Chudasama, R.V. Upadhyay, R.V. Mehta	
PS2-1053	“Magnetic drug targeting - chance for an imaging controlled therapy”	<i>Germany</i>
	S. Lyer, R. Tietze, E. Schreiber, R. Jurgons, T. Struffert, T. Engelhorn, A.Dörfler, L.Budinsky, A. Hess, S. Odenbach, C. Alexiou	

PS2-1055	“Concentrated biocompatible water-based ferrofluids with double layered sterical stabilization: structure and in-vitro testing”	Russia
	M. V. Avdeev, L. Vékás, O. Marinica, V. M. Garamus, A. V. Feoktystov, R. Turcu, B. Mucha, K. Lamszus, R. Willumeit	
PS2-1059	“Preparation and characterization of albumin containing magnetic fluid as potential drug for amyloid diseases treatment”	Slovakia
	M. Koneracka, A. Antošova, V. Zavišova, Z. Gažova, G. Lancz, A. Jurikova, N. Tomašovičova, M. Fabian, P. Kopčanský	
PS2-1097	“Distribution of chemotherapeutic agents after nanoparticle mediated application”	Germany
	R. Tietze, S. Lyer, E. Schreiber, H. Richter, C. Alexiou	
PS2-1143	“Coupling bleomycin to multifunctionalized magnetic nanoparticles, toward an efficient cancer treatment”	France
	T. Georgelin, S. Bombard, J.M Siaugue, V. Cabuil	
PS2-1151	“Rapid micromixer via ferrofluids”	Taiwan,
	L.M. Fu, C.H. Tsai, K.P. Leong, C.Y. Wen	R.O.C.
PS2-1164	“Experimental investigations on a branched tube model in magnetic drug targeting”	Germany
	K. Gitter, S. Odenbach	

PS2-1215	“Magnetic fluid modified peanut husks as an adsorbent for organic dyes removal”	Czech Republic
	I. Safarik, M. Safarikova	
PS2-1216	“Magnetic properties and application of biomineral particles produced by bacterial culture”	Russia
	L.A. Ishchenko, S.V. Stolyar, V. P. Ladygina, Y. L. Raikher, M. Balasoiu, O. A. Bayukov, R. S. Iskhakov, E. V. Inzhevatkin	

Thursday, 5 th August, 2010		
Poster Session 3 (12:00 – 13:30)		
PS3-1010	“Characteristics of electromagnetic induction for moving ferrofluids”	Taiwan, R.O.C.
	C. H. Lin, C. M. Wu, K. A. Huang, C. Y. Chen	
PS3-1023	“Wave propagation in ferrofluid on the basis of extended equations”	Ukraine
	I. Selezov	
PS3-1037	“The role of van der Waals forces in ferrofluid phase separation”	Russia
	E. Krutikova, A. O. Ivanov	

PS3-1038	“Pair correlations in a magnetic fluid with weak dipolar interactions”	<i>Russia</i>
	E. A. Elfimova, A. O. Ivanov, P. J. Camp	
PS3-1049	“Monte-Carlo model for dynamic magnetization of microspheres”	<i>France</i>
	P.V. Melenev, R. Perzynski, Y. L. Raikher, V.V. Rusakov	
PS3-1054	“Biasing field effect on the microwave dielectric properties of magnetic fluids”	<i>Ireland</i>
	C. Couper, C. N. Marin, P.C. Fannin	
PS3-1061	“Couple-stress effect on the effective viscosity of magnetic fluids”	<i>Taiwan, R.O.C.</i>
	H. C. Weng	
PS3-1065	“A magnetic fluid bridge between coaxial cylinders with a line conductor”	<i>Russia</i>
	V.A. Naletova, V.A. Turkov, A.S. Vinogradova	
PS3-1071	“Inverse task for evaluation of particle size distribution of polydisperse magnetic fluids”	<i>Latvia</i>
	M. M. Maiorov, E. Blums, K. Raj	
PS3-1073	“Dielectric breakdown in mineral oil ITO 100 based magnetic fluid”	<i>Slovakia</i>
	J. Kudelcik, P. Bury, P. Kopcansky, M. Timko	

PS3-1078	“Study of the structure factor anisotropy and long range correlations of ferrofluids in the diluted low coupling regime”	<i>Germany</i>
	J. J. Cerda, E. Elfimova, V. Ballenegger, E. Krutikova, A. Ivanov, C. Holm	
PS3-1087	“Neel and Brownian rotations in ferronematics”	<i>Slovakia</i>
	P. Kopcansky, N. Tomasovicova, M. Koneracka, V. Zavisova, M. Timko, L. Tomco, N. Eber, K. Fodor-Csorba, T. Toth-Katona, A. Vajda, J. Jadzyn, E. Beaunon, X. Chaud	
PS3-1119	“Theoretical model of electromagnetic separation in circular current and experimental study”	<i>China</i>
	Z. Zengwu, D. Yongsheng, Z. Hongxia, L. Baowei	
PS3-1124	“Influence of segregation effect on the freedericksz transition in ferronematics”	<i>Russia</i>
	O. R. Semenova, A. N. Zakhlevnykh	
PS3-1132	“Bidisperse monolayers: theory and computer simulations”	<i>Germany</i>
	S. Kantorovich, E. Minina, J. Cerda, C. Holm	
PS3-1134	“Magnetic particles with shifted dipoles”	<i>Germany</i>
	S. Kantorovich, R. Weeber, J. J. Cerda, C. Holm	
PS3-1137	“Magnetocaloric effect in ferrofluids”	<i>Russia</i>
	D.V. Korolev , V.V. Korolev, I.M. Arefyev	

PS3-1142	“Osmotic equation of state of apolar ferrofluids from analytical centrifugation”	<i>Netherlands</i>
	B. Luigjes, B. H. Erne, D. M.E. Thies-Weesie, A.P. Philipse	
PS3-1162	“Temperature dependence of the magnetic susceptibility of magnetic disperse nano-systems”	<i>Russia</i>
	S. A. Kunikin, Y. I. Dikansky	
PS3-1177	“Magnetic field programming in quadrupole magnetic field-flow fractionation”	<i>USA</i>
	P. S. Williams, F. Carpino, L. R. Moore, M. Zborowski	
PS3-1018	“Dynamics of magnetophoresis in dilute magnetic fluids”	<i>Russia</i>
	A. S. Ivanov, A. F. Pshenichnikov	
PS3-1033	“Influence of interparticle interactions on diffusion processes in magnetic fluids”	<i>Russia</i>
	A. F. Pshenichnikov, E. A. Elfimova	
PS3-1034	“Experimental study of a statics of magnetic fluid under influence of Brownian diffusion of magnetic particles”	<i>Belarus</i>
	V. Bashtovoi, A. Reks, S. Klimovich, Y. TangZhi	
PS3-1042	“Anomalous diffusion in microchannel under magnetic field”	<i>France</i>
	C. Derec, M. Smerlak, J. Servais, J.-C. Bacri	

PS3-1043	“Experimental research of ferrofluid’s behavior on a special magnetic body in extra magnetic field”	<i>China</i>
	F. Yanqing, S. Qiao, L. Xuehui	
PS3-1048	“The principle of pressure decomposed for flow over a flat plate and its application on the magnetic fluids”	<i>China</i>
	M. Li, H. Yamaguchi, X. D. Niu	
PS3-1051	“Viscosity characteristics of water based magnetic fluids mixing a water soluble polymer”	<i>Japan</i>
	S. Shuchi, H. Yamaguchi	
PS3-1083	“Experimental and theoretical investigations on Taylor–Couette flow of ferrofluids subject to magnetic fields”	<i>Germany</i>
	M. Reindl, A. Leschhorn, M. Lucke, S. Odenbach	
PS3-1086	“Distribution of micrometer-size particles in magnetic fluids in the presence of uniform magnetic field”	<i>Japan</i>
	Y. Ido, T. Yamaguchi, Y. Kiuchi	
PS3-1088	“Magnetic fluid between horizontal plates in the fields of horizontal conductors”	<i>Russia</i>
	V.A. Naletova, V.A. Turkov, T.I. Volkova	
PS3-1089	“Lateral diffusivity of binary magnetic monolayer colloids and chains confined in thin films”	<i>Japan</i>
	Y. Terada, M. Tokuyama	

PS3-1090	“Poisson brackets method in ferrohydrodynamics”	<i>Russia</i>
	V.V. Sokolov, P.A.Eminov, K.N.Fotov	
PS3-1091	“Measurement of concentration in solid-liquid two-phase flow using magnetic fluid”	<i>Japan</i>
	Y. Sawai, X. Niu, F. De Vuyst, H. Yamaguchi	
PS3-1093	“Open channel flows of magnetic fluid induced by traveling magnetic field”	<i>Japan</i>
	T. Kuwahara, M. Okubo, R. Yamane	
PS3-1139	“Ground state structures in ferrofluid monolayers”	<i>Russia</i>
	T. Prokopyeva, V. Danilov, A. Dobroserdova, S. Kantorovich, C. Holm	
PS3-1173	“The influence of volume fraction of magnetic particles on the rheological behaviour of magnetic nanofluids”	<i>Romania</i>
	D. Susan-Resiga, A. Han, T. Boros, O. Marinica, L. Vékás	
PS3-1205	“Dynamics of organic/inorganic magnetic microrods under rotating field”	<i>France</i>
	B. Frka-Petesic, K. Erglis, J. F. Berret, A. Cebers, V. Dupuis, J. Fresnais, R. Perzynski, O. Sandre	
PS3-1209	“Integrated super computational analysis of atomization process of magnetic fluid jet”	<i>Japan</i>
	J. Ishimoto	

PS3-1213	“Does the magnetic field of a multipole stator winding drive flow of a ferrofluid in a cylindrical container?”	<i>USA</i>
	I. Torres-Díaz, C. Rinaldi	
PS3-1214	“The dynamic behavior of magnetic fluid adsorbed to small permanent magnet in alternating magnetic field”	<i>Japan</i>
	S. Sudo, D. Asano, H. Takana, H. Nishiyama	
PS3-1227	“A behavior model of magnetorheological fluid in direct shear mode”	<i>Korea</i>
	K.- I. Jang, B- K. Min, J. Seok	
PS3-1229	“Modeling of a magnetorheological fluid flowing in thin channel with wall-slip conditions”	<i>Korea</i>
	S. Lim, J. Seok	