



The 8th International Conference on Rare Earth

Development and Application

&The 3rd China Rare Earth Summit

Third Circular

Lanzhou • China

Aug. 2~6, 2016

Hosted by

The Chinese Society of Rare Earths (CSRE)

Co-sponsored by

Lanzhou University

Gansu Rare Earth New Material Co., LTD

Association of China Rare Earth Industry

Chemical, Metallurgical and Materials Division of Chinese Academy of Engineering

International Conference on Rare Earth Development and Application (ICRE) is a series international conference organized by China since 1985, the Chinese Society of Rare Earths (CSRE) has successfully organized seven international conferences.

In order to promote rare earth science and technology, CSRE is very glad and honored to hold the 8th International Conference on Rare Earth Development and Application (ICRE'2016) in Lanzhou in August 2~6, 2016.

Now the conference has been ready and to be held. We are looking forward to your participation.

1.Registration Time	8:30am-17:30pm, Aug. 2, 2016
2.Registration Place	Lanzhou Legend Hotel (529, Tianshui South Road Lanzhou, Gansu, China)
3.Conference Time	Aug. 3~6, 2016
4.Content	Plenary speech, Session speech, technical visit
5.Registration Fee	Attachment 1
6.Accommodation	Attachment 2
7.Travel Information	Attachment 3
8.Full Paper Inclusion	Attachment 4
9.Conference Program (Reference)	Attachment 5

If you want to know more information, please contact us.

Conference Secretariat

Address: Academic Department of the Chinese Society of Rare Earths, No. 76, Xue Yuan Nan Lu, Beijing, 100081, China

Tel: +86-10-62182748, 62188304

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E-mail: csre@cs-re.org.cn

Attention to:Dr. CHEN Zhanheng, HAN Xiaoying, SHI Jie, SUN Juying, LIU Yili

Attachment 1

Registration Fees (Including lunch and dinner, coffee breaks, conference proceedings)

Registration Fees	
Delegate	650 USD
Student	350 USD
Accompanying Person	250 USD
Exhibition	2500 USD

Payment Information

Bank Name: Industrial and Commercial Bank of China

Bank Address: Beijing Wangfujing Golden Street Branch

SWIFT Code: ICBKCNBJBJM

Beneficiary: A/C No.: 0200000709089148920

Tel/Fax: +86-10-62173501

Attachment 2

Accommodation

Lanzhou Legend Hotel

Address: 529, Tianshui South Road Lanzhou, Gansu, China

Tel:(86-931) 853 2888 Fax: (86-931) 853 2333

Booking Website: <http://www.lanzhoulegendhotel.com/EMainpage.asp>

If you need us to book the hotel, please contact us by E-mail: csre@cs-re.org.cn

Tips: Please book your hotel and round-trip ticket as soon as possible because of tourist season in August in Lanzhou city.

Attachment 3

Travel Information

1. Lanzhou Zhongchuan airport is 78km away from Lanzhou Legend Hotel, and about RMB150~180 by taxi. If you take the airport bus, please get off at the "Lanzhou DongFang hotel" station.

2. Lanzhou railway station is less 1km away from Lanzhou Legend Hotel, take bus 131 or 1,110 to reach after 2 stops.

Attachment 4

Full Paper Inclusion of ICRE'2016

The 8th International Conference on Rare Earth Development and Application appealed to many scientific and technical workers with warm response. In respond to the popular demand, we made the decision after discussion that those excellent full-text papers submitted to the conference can be included and published preferentially in Scientific and Technical Research Development of Rare Earth out through the experts examining and approval process. This book is published by Chinese Science Publishing House with official standard book number. The due date of full paper submission falls on July 30th, 2016. There is no charge for authors except for the publishing fee, which is RMB300 per page.

Attachment 5

Aug. 2, 2016	
08:30-17:30	Registration
	Place: Lanzhou Legend Hotel (529, Tianshui South Road Lanzhou, Gansu, China)

Aug. 3, 2016	
08:30-09:00	Opening Ceremony
09:00-09:30	Group Photo
09:30-12:00	Plenary Speech
09:30-10:20	Speaker Paolo Fornasiero, University of Trieste
	Title Ceria: a versatile oxide for energy and environmental applications
10:20-11:10	Speaker Hu Boping, Beijing Zhong Ke San Huan Hi-Tech Co., Ltd
	Title China's Rare-earth Permanent Magnet Industry
11:10-12:00	Speaker Nobuhito Imanaka, the Rare Earth Society of Japan/Osaka University
	Title C-type and Fluorite-type Rare Earth Oxides -Application for Functional Catalysts
12:00-14:00	Lunch and Rest
14:00-18:10	The 3rd China Rare Earth Summit
14:00-14:20	Opening Speech
14:20-14:50	Speaker Ma Rongzhang, Association of China Rare Earth Industry
	Title Rare earths industry and market trend analysis
14:50-15:20	Speaker Yang Wenhao, Gansu Rare Earth New Material Co., Ltd
	Title Overall enterprises technical progress through Self-innovation and integration of research and production
15:20-15:50	Speaker David Abraham, The Institute for the Analysis of Global Security
	Title Differing global perspectives on rare earth development now and over the next ten years
15:50-16:20	Speaker An Sihui, Baotou Rare-Earth Hi-tech Zone
	Title Rare earth industry of Baotou city
16:20-16:40	Coffee Break
16:40-17:10	Speaker Ryan Castelloux, Adamas Intelligence, The Netherlands
	Title Trends in global downstream application and forecasted demand for rare earths in 2020
17:10-17:40	Speaker Wu Jianmin, Beijing HarmoFinerY Technology Co. Ltd
	Title Status of rare earth hydrogen storage materials and NiMH batteries and future prospects
17:40-18:10	Speaker Zhuang Weidong, General Research Institute for Nonferrous Metals

	Title	Rare Earth Phosphors for Lighting and Display
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Aug. 4, 2016		
(Morning)		

08:30-09:20	Speaker	Martin Nikl, Institute of Physics AS CR
	Title	Application of rare earth ions in fast and high density scintillators
09:20-10:10	Speaker	Annie Powell, Karlsruhe Institute of Technology (KIT)
	Title	Rare properties from including Rare Earths in Coordination Compounds
10:10-10:30	Coffee Break	
10:30-11:20	Speaker	Xue Dongfeng, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences
	Title	Crystallization study of functional rare earth inorganic materials
11:20-12:10	Speaker	J. Paul Attfield, University of Edinburgh, UK
	Title	Rare Earth Oxide Materials - Exploiting Size, Spins and Spectra
12:10-14:00	Lunch and Rest	

Aug. 4, 2016		
(Afternoon)		

Session	Notice to All Speakers: Please prepare a brief personal introduction of 50-100 words at the beginning of your presentation in PPT format. If you want to change your slot or presentation type of a session, please contact with chairman.	
Session A	Rare Earth Chemistry and Physics, Rare Earth Resources and Metallurgy, Ecology and Environmental Protection	
14:00-14:30	Invited: Xing Xianran	Structure and negative thermal expansion in RE compounds
14:30-15:00	Invited: Wang Yuhua	Design, Syntheses and Characterizations of Several Novel Long Persistent Phosphors
15:00-15:20	Dong Qiang	Friction and wear behavior of WC-Ni coatings deposited by high-velocity oxygen-fuel spraying
15:20-15:40	Sam P. Sinha	Molecular modeling and the structures of the lanthanide complexes with cyclopyridines, a novel class of ligands i: cyclotripyridine and its lanthanide(iii) complexes
15:40-16:00	Qiang You	REE Recycling by Advanced Magnetic Separation Nanotechnology

16:00-16:20	Chen Ji	New technique for Bayan Obo mixed RE concentrate based on Valency Change and Complexation of Cerium(Ce) with Fluorine (F) and Phosphorus (P)
16:20-16:40	Wang Kai	Synthesis and reactivity studies of rare earth polydentate aryloxide complexes
16:40-17:00	Qi Jie	Design and Investigation of New Mold Fluxes for Heat Resistant Steel Containing Rare Earth Continuous Casting
17:00-18:00	Poster	
Session B	Rare Earth Function Materials and Application, Rare Earth Structure Materials and Application	
14:00-14:30	Invited: Jean-Claude Bunzli	From Supramolecular Assembly to Luminescent Detection of Biomarkers
14:30-15:00	Invited: Ren Guohao	Optical and Scintillation Performance of Ce doped $\text{Li}_6\text{RE}(\text{BO}_3)_3$ (RE= Gd, Y, Lu,) Crystals for Neutron Detection
15:00-15:20	Li Xingying	Control of agglomeration during the preparation of nanometer yttrium oxide by precipitation method
15:20-15:40	Zhong Zhenchen	Permanent Magnetic Nanomaterials Beyond Neodymium-Iron Magnets
15:40-16:00	Feng He	Single crystal growth and performance of $(\text{Gd}_{0.9}\text{Lu}_{0.1})_2\text{Si}_2\text{O}_7:\text{Ce}$ scintillator
16:00-16:20	Huang Youlin	Improving hard magnetic properties by reducing recoil loop openness for hot deformed nanocrystalline RE-rich NdFeB magnets
16:20-16:40	Xue Qiannan	Computational and Experimental Investigation of Scandia-doped Zirconia used in SOFCs
16:40-17:00	Zhu Tingting	Theoretical study of CO adsorption and oxidation on $\text{Ce}_{3.5}$ clusters supported on Al_2O_3 (111)
17:00-18:00	Poster	

Aug. 5, 2016

Session	<p>Notice to All Speakers: Please prepare a brief personal introduction of 50-100 words at the beginning of your presentation in PPT format. If you want to change your slot or presentation type of a session, please contact with chairman.</p>
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Session A		Rare Earth Chemistry and Physics, Rare Earth Resources and Metallurgy, Ecology and Environmental Protection
8:30-9:00	Invited: Polly Arnold	Organometallic Rare Earth N-Heterocyclic Carbene Complexes for C-H Bond Activation and Catalysis
9:00-9:20	Batnasan Altansukh	Recovery of Rare Earth Elements (REEs) from Pregnant Leach Solution of Apatite through Precipitation
9:20-9:40	Liao Wuping	Extraction and separation of Ce(IV), F(I) and Th(IV) from sulphuric acid leaching of bastnaesite by a novel extractant Cextrant 230
9:40-10:00	Dong Jinshi	Recovery of rare earth from leaching solution of ion-adsorption rare earth ores by centrifugal extraction with HEH(EHP) and D2EHPA
10:00-10:20	Coffee Break	
10:20-10:50	Invited: Huang Xiaowei	A new green technology for Baotou rare earth ore smelting separation
10:50-11:10	Li Laichao	Recovery of Terbium and Gallium from TGG crystal
11:10-11:30	Andre' Reid	Geochemistry of Rare Earth Elements within Jamaican Bauxite Deposits
11:30-11:50	Zhang Le	The Effect of Rare Earth (Cerium) Ions Location on REY Zeolite Catalytic Activity and Product Distribution in FCC Process
11:50-14:00	Lunch and Rest	
14:00-14:30	Invited: Patrick Zhang	Beneficiation and Leaching of Phosphate Process Streams for REE Recovery
14:30-14:50	Yi Xiaowen	Study on the recycle technology of waste sintered Nd-Fe-B magnets
14:50-15:10	Wu Sheng	Novel Algorithm for Solving Minimum Extraction Amount in Multi-component Extraction System
15:10-15:30	Zaure Baytasovna Karshigina	Complex processing of phosphor production slag with rare earth metals recovery and deriving of silicon-containing solution
15:30-15:50	Zhong Xueming	The Principle and Advantages of Fractional Extraction System with Two Inlets for Separating Rare Earths from Two Kinds of Material Liquid
15:50-16:10	Coffee Break	
16:10-16:30	Seng how Kuan	A Review of Rare Earths Processing in Malaysia
16:30-16:50	Deng Jie	Beneficiation-hydrometallurgy combination to process a phosphorus rare earth ore
16:50-17:10	Luo Yang	Experimental study and thermodynamic calculation of Lu ₂ O ₃ -SiO ₂ binary system
17:10-17:30	Wu Jinhu	Effects of La Microalloying on Microstructure Evolution of Pure Copper

17:30-17:50	Xin Gongbiao	Promising hydrogen storage properties of La-Y-Mg-Ca-Ni AB ₃ -type alloys
17:50-18:10	Song Xin	Catalytic hydrolysis of COS over CeO ₂ (110) surface: A density functional theory study
18:10-18:30	Zhang Niumiao	Ionic conductor titanate red phosphor in LEDs and FEDs: DFT calculation, luminescent characteristic, thermal stability and conductivity analysis
Session B	Rare Earth Function Materials and Application, Rare Earth Structure Materials and Application	
8:30-9:00	Invited: Ru-Shi Liu	Chemical Control of Crystal Structure and Photoluminescence in Oxonitridosilicate Phosphors
9:00-9:20	Zheng Yaling	The synthesis and luminescent properties of Ce ³⁺ -activated garnet phosphor
9:20-9:40	Yan Chunpei	The Effect of Gd on a Red Shift in Ce-doped Y ₂ Si ₄ N ₆ C UV-excitation Phosphors for White LEDs
9:40-10:00	Xue Zhiwei	Auto-thermal reforming of ethanol into hydrogen over Ni-La/CeO ₂ catalyst
10:00-10:20	Coffee Break	
10:20-10:50	Invited: Zhu Shemin	Rare earth ce- based denox catalyst technology and apply
10:50-11:10	Jin Qijie	Effect of RE Element Pr on the CeO ₂ /Al ₂ O ₃ catalyst for selective catalytic reduction of NO by NH ₃
11:10-11:30	Zheng Hairong	Rear earth doped NaYF ₄ microrod with unusual upconversion luminescence emission
11:30-11:50	Zhu Dongbin	Application of Far Infrared Rare Earth Mineral Composite Materials to Liquefied Petroleum Gas
11:50-14:00	Lunch and Rest	
14:00-14:30	Invited: Chen Teng-Ming	Synthesis and Luminescence Properties of Novel Rare Earth-doped Rare Earth Thiosilicate and Halothiosilicate for White LEDs
14:30-14:50	Zhu Tingting	Theoretical study of CO adsorption and oxidation on Ce _{3.5} clusters supported on Al ₂ O ₃ (111)
14:50-15:10	Han Shuang	Catalytic oxidation of H ₂ S over CeO ₂ (111)_surface : A density functional theory study
15:10-15:30	Cao Xueqiang	Application of rare earths in thermal barrier materials
15:30-15:50	Xia Libin	Structure and characteristics analysis of zinc bismuth borate glasses for W-LED
15:50-16:10	Coffee Break	
16:10-16:40	Invited: Zhang Milin	An innovative grading rule of the deposition potentials of lanthanide alloys

16:40-17:00	Liu Xiaozhen	Preparation and performance of cerium dioxide film by anodization and heat treating
17:00-17:20	Song Bo	A Dual-Emission Nanoarchitecture of Lanthanide Complex-Doped Silica Particles for in-vivo Ratiometric Time-gated luminescence Imaging of Hypochlorous Acid
17:20-17:40	Chen Yan	Absorptivity and Purification of La in As-cast Pure Copper
17:40-18:00	Zhu Dongmei	Lattice Boltzmann Simulation for Leaching Process of Ion Type Rare Earth
18:00-18:20	Du Fu	Synthesis and luminescent properties of $\text{La}_3\text{Si}_6\text{N}_{11}:\text{Ce}^{3+}$ phosphors for White LEDs

Aug. 6, 2016

Conference Closing

tips:

A technical visit to Gansu Rare Earth New Material Co.,Ltd will be organized by the Chinese Society of Rare Earth after the conference. Delegates who have interests please sign up at the time of registration, and please arrange your return time.

The assembly place: front of the Legend Hotel

Visit time: 8:00am-14:00pm

POSTER		
Paste Time	12: 00-14: 00pm, Aug. 4	
Communicate Time	17: 00-18: 00pm, Aug, 4	
Poster Board	60 cm width and 90cm height (Please paste on the board according to the number)	
No.	Author	Title
1	Xu Zhan	The enhancement of structure stability and luminescence intensity of $\text{LiYF}_4:\text{Ln}^{3+}$ nanocrystals
2	Zhao Shifeng	Effect of terbium substitution on crystal structure and magnetic properties of BiFeO_3 nanoparticles
3	Guan Anxiang	Broad-band absorption and sensitized fluorescence of $\text{Sr}_8\text{MgY}(\text{PO}_4)_7:\text{Tb}^{3+}$ phosphors by codoping with Ce^{3+} ions
4	Zhou Lei	Gradient distribution of Dy in diffusion treated Nd-Fe-B sintered magnet
5	Chen Caihua	Optical Properties and Energy Transfer of Warm-White Light-Emitting $\text{Ca}_{12}\text{Al}_{14}\text{O}_{32}\text{F}_2:\text{Tb}^{3+}, \text{Eu}^{2+}, \text{Eu}^{3+}$ Phosphors
6	Xu Xiaochang	Texture and magnetism in nanocrystalline $(\text{SmCo}_5)_{0.6}(\text{PrCo}_5)_{0.4}$ magnets
7	Hu Ruisheng	Supported Double Perovskite-type Rare Earth Catalyst $\text{La}_2\text{MnCuO}_6/\text{Ce-Mg-O}$ for Methane Catalytic Combustion
8	Bai Yuting	The Compare Study on Zeolite Y Modified by Rare Earth Metals
9	Song Lijun	Fabrication and UV-shielding Properties od Ceria/PA6 Film
10	Gao Zhijie	Microstructure and electrochemical properties of the $\text{La}_{0.83-x}\text{Sm}_x\text{Mg}_{0.17}\text{Ni}_{3.1}\text{Co}_{0.3}\text{Al}_{0.1}$ ($x = 0-0.4$) hydrogen storage alloys
11	Huang Lihui	A novel white light emitting phosphor $\text{Ca}_2\text{LiSiO}_4\text{F}:\text{Eu}^{2+}$ for near UV white LEDs
12	Lai Fengqin	The effect of sintering temperature and concentration on the luminescence properties of Eu^{3+} doped $\text{Y}_4\text{Zr}_3\text{O}_{12}$ nanoparticles
13	Liu Zhihong	Research on Removal of Harmful Ions in Wastewater of Phosphate Ore Flotation
14	Liu Xiaomei	$\text{Ni}_{1-x}\text{Mg}_x$ -SDC anodes for low-temperature solid oxide fuel cells
15	Guo Haijie	A novel yellow super long lasting phosphate phosphor $\text{Ca}_6\text{BaP}_4\text{O}_{17}:\text{Eu}^{2+}, \text{R}^{3+}$ ($\text{R}=\text{Dy}, \text{Tb}, \text{Ce}, \text{Gd}, \text{Nd}, \text{Ho}$)
16	Wang Yichao	A novel single-phased warm white emission phosphor $\text{Sr}_3\text{YAl}_2\text{O}_{7.5}:\text{Bi}^{3+}, \text{Eu}^{3+}$ with energy transfer for UV white LEDs
17	Seong cho yu	Magnetocaloric Effect around the First-to-Second Order Phase Transformation of $\text{La}_{0.7}\text{Ca}_{0.275}\text{Ba}_{0.025}\text{MnO}_3$ Nanocrystals

18	Shen Zhenzhou	Study on the Soil Erosion Evolution on Loess Slope by REE Tracking
19	Tang Jianfeng	Synthesis, structure and upconversion luminescence of Yb ³⁺ , Ho ³⁺ codoped Gd ₃ Al ₅ O ₁₂ garnet phosphor prepared by the Pechini sol-gel method
20	Chen Yunnen	Treatment of Ammonium-nitrogen from Wastewater by Catalytic Oxidation with Ozone
21	Zhou Dan	Application of rhamnolipids for Rare Earth La、Ce、Y、Eu removal from contaminated soil by washing
22	Zhao Panpan	A Novel strategy for Synthesis of the CePO ₄ Nano-structure by Using the Ionic Liquid-driven Supported Liquid Membrane System
23	Liao Qiuxia	Specificity for Extraction of Rare Earth Ions using the Ionic Liquid -based Tri-n-octylphosphine oxide Systems
24	Qiu Shijie	The effect of alkaline-earth metal carbonates on photoluminescence property of β-sialon:Eu ²⁺
25	GA-LAI LAW	Intense triboluminescence and crystal structures of Eu III and Sm III complexes with a non-discharge mechanism
26	Zou Xiao	Structure and luminescent properties of Sm ³⁺ -doped Ca ₃ Bi(PO ₄) ₃ phosphors
24	Chen Jiayu	Multicolor Emitting Single Phase Phosphors for Plant Growth LEDs
28	Shi Rui	Consequences of ET and MMCT on luminescence of Ce ³⁺ , Eu ³⁺ and Tb ³⁺ doped LiYSiO ₄
29	He Lihua	Multi-color green-blue emission in (Ca _{0.8} , Ba _{1.2}) _{1-x} Mgx SiO ₄ : Eu ²⁺ phosphors
30	Xu Yulei	Effect of minor yttrium on mechanical properties and microstructure of die-casting magnesium alloy AZ91D
31	Cen Peng	Study on the Decomposition of Bastnaesite by Ca(OH) ₂ -NaOH
32	Sun Shuo	Study on recycle technology for waste isotropic bonded Nd-Fe-B magnets
33	Xu Lei	The effects of hydrogen pressure on the magnetocaloric effect in LaFe _{11.5} Si _{1.5} compound
34	Zheng Qiang	Investigations on the roasting process of Bayan Obo tailings
35	Zhang Xiaowei	Impurity characterization by laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS) in terbium after solid state electrotransport purification
36	Ma Ying	Study on Improving the Recovery of Bayan Obo Oxidized Low-Intensity Magnetic Separation Tailings
37	Zuo Shufeng	The study of catalytic combustion of chlorobenzene on CrCe/AlFe pillared clays
38	Yang Fan	A High-efficient System of the Ionic-liquid Containing CHON-type Extractant for Extraction and Recovery of Rare-earth Resources
39	Chen Peng	Efficient Recycling of Lutecium Secondary Resources from LYSO scraps Based on XAD Resin Containing Ionic Liquid System
40	Zhou Yan	Study on Recovery of Rare Earth and Iron from Tailing from Iron Ore Dressing in Baotou with Magnetizing Roasting-Magnetic Separation and Ammonium Sulfate Roasting

		Treatment
41	Zhao Zhigang	Separation of rare earth metal ions using novel adsorbents functionalized with amic acid
42	Yuanshuai	Study on Leaching of Rare Earth Oxide by H ₂ SO ₄ and Defluorinating by Distillation
43	Xiao Hai	Quantitative monitoring ephemeral gully erosion processes by using rare earth elements
44	Bao Chengmin	Study on the distribution characteristics of oil particle size of oil-containing waste water from rare earth hydrometallurgy process
45	Zhang Wenjuan	Treatment of Magnesium Sulfate Wastewater of Rare Earth Transformation Using Oxalic Acid Precipitation Method
46	Zhang Yang	Graphene-based composites used in the separation of high-purity rare earth and the development of intelligent separation device
47	Ou Hongmei	Differential Expression of Proteins in Wheat Leaves Treated with Lanthanum
48	Andi Imam Hidayah	The effects of Tb substitution for La on the magnetic properties of LaFe _{11.5} Si _{1.5} compound

Tips:

For those whose title may have mistakes or missing error, or those who cannot come for the conference for certain reason, please do let us know before July 14 by email csre@cs-re.org.cn, so that we could adjust our schedule.