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| **April 4, 2018 (Day 1)** | | | | | | | | |
| Registration at the **1st Floor** of Park Plaza Beijing Science Park (10:00~22:00) | | | | | | | | |
| **AM, April 5, 2018 (Day 2)** 3rd Floor, Indigo Grand ballroom | | | | | | | | |
| 8:20~8:40 | | **Opening Ceremony**    **Chair: Junying Zhang** | | Welcome address by  **Prof. Chunhua Yan**  (Workshop Chair, President of Lanzhou University)  **T. B. D.** (Leadership and administration of Beihang University) | | | | |
| **Plenary Talk (I)**  **Chair: Ji Zhou** (Tsinghua University, China) | | | | | | | | |
| 8:40~9:15 | | **(PT01)** It’s A Trap | | | | **Andries Meijerink** | Debye Institute, Utrecht University, Netherlands | |
| 9:15~9:45 | | **Taking Photo (in front of the hotel) and Coffee Break** | | | | | | |
| **Plenary Talk (II)**  **Chair: Philippe F. Smet** (Ghent University, Belgium) | | | | | | | | |
| 9:45~10:20 | | **(PT02)** Progress in piezoluminescence and mechanoluminescence | | | | **Chao-Nan Xu** | National Institute of Advanced Industrial Science and Technology (AIST), Japan | |
| 10:20~10:55 | | **(PT03)** Garnet and perovskite hosts accommodate both lanthanide and transition metal ions for persistence | | | | **Setsuhisa Tanabe** | Kyoto University, Japan | |
| **Plenary Talk (III)**  **Chair: Jun Lin** (Changchun Institute of Applied Chemistry, CAS, China) | | | | | | | | |
| 10:55~11:30 | | **(PT04)** Shedding Light on Luminescent Nanothermometry | | | | **Luís D. Carlos** | Universidade de Aveiro, Portugal | |
| 11:30~12:05 | | **(PT05)** Design and synthesis of long persistent phosphorescence in the biologically transparent windows | | | | **Jianrong Qiu** | Zhejiang University, China | |
| **Lunch** | | | | | | | | |
| **PM, April 5, 2018 (Day 2)** 3rd Floor, Indigo Grand ballroom 1, 2, 3, Amber Golden Ballroom 3 | | | | | | | | | |
|  | **Session A** | | **Session B** | | **Session C** | | | **Session D** | |
|  | **Chairs: Yong Zhang, Hairong Zheng** | | **Chairs: Dongfeng Xue, Farida Selim** | | **Chairs: Ru-Shi Liu, Jing Wang** | | | **Chairs: Fuyou Li, Ka-Leung Wong** | |
| 14:00~14:25  **Keynote talk** | **(A01)** Tailoring Luminescent Nanoparticles for Biology  **Gang Han**, University of Massachusetts-Medical School, USA | | **(B01)** Stimuli responsive luminescence in advanced composite and two- dimensional materials  **Jianhua Hao**, The Hong Kong Polytechnic University, China | | **(C01)** SrAl2O4:Eu2+ persistent phosphor: first-principles and crystal field calculations  **Mikhail G. Brik**, Chongqing Univ. Posts & Telecommu., China | | | **(D01)** Multifunctional luminescent nanomaterials: controlled fabrication, properties and biomedical Applications  **Jun Lin**, Changchun Institute of Applied Chemistry, CAS, China | |
| 14:25~14:45  **Invited talk** | **(A02)** Spectra and pattern tunable UC luminescence emission and directional radiation from single RE doped particles  **Hairong Zheng**, Shaanxi Normal University, China | | **(B02)** Intriguing luminescence and optical phenomena in transparent ceramics  **Farida Selim**, Bowling Green State University, USA | | **(C02)** First-principles study on structure-property relationship in Ce3+ and Eu2+-doped phosphors with complex structures  **Lixin Ning**, Anhui Normal University, China | | | **(D02)** Persistent luminescence for overexpressed proteins mediated imaging in cancer diseases and its therapy  **Ka-Leung Wong**, Hong Kong Baptist University, China | |
| 14:45~15:05  **Invited talk** | **(A03)** Wavelength Dependent Thermoluminescence studies of SrAl2O4:Eu2+ with or without the additional dopants Boron and/or Dysprosium  **Hans Hagemann**, University of Geneva, Switzerland | | **(B03)** Advanced Transparent Ceramics for Photonic Applications  **Jiang Li**, Shanghai Institute of Ceramics, CAS, China | | **(C03)** Luminescent properties of blue and red emitting phosphor Ba3CaK(PO4)3: Eu2+/Mn2+ for plant growth LEDs  **Chongfeng Guo**, Northwest University, China | | | **(D03)** Controlled Synthesis and Biomedical Applications of Persistent Luminescence Nanoparticles  **Quan Yuan**, Wuhan University, China | |
| 15:05~15:20  **Oral talk** | **(A04)** Cr3+/Nd3+ co-doped LaAlO3 perovskite phosphor: a multi-wavelength long persistent luminescence probe covering the first and second biological windows  **Jian Xu**, Kyoto University, Japan | | **(B04)** Facile preparation of plasmon enhanced near-infrared photo- luminescence of Er3+-doped Bi2O3-B2O3-SiO2 glass for optical fiber amplifier  **Guoying Zhao**, Shanghai Institute of Technology, China | | **(C04)** Influences of different ion doping on the performance of SrAl2O4:Eu,Dy  **Bernhard Walfor**, RC Tritec AG, Switzerland | | | **(D04)** Bio-application Exploration and Industrialization of Upconversion Nanoparticles and Other Luminescent Materials  **Lei Zhou**, Institute of Process Engineering, CAS, China | |
| 15:20~15:35  **Oral talk** | **(A05)** Enhancement of near infrared long afterglow in spinel persistent phosphors  **Zaifa Pan**, Zhejiang University of Technology, China | | **(B05)** Novel Er3+/Ho3+ codoped glass ceramics fibers for widely tunable mid-infrared fiber lasers  **Shiliang Kang** South China University of Technology, China | | **(C05)** Tuning of photoluminescence by crystal-phase engineering in the Ba3P4O13:Eu2+ phosphor  **Zhan-Chao Wu**, Qingdao University of Science and Technology, China | | | **(D05)** Coherent phonon dynamics in single-walled carbon nanotubes with (7,5) chirality vector  **Zhaogang Nie**, Guangdong University of Technology, China | |
| 15:35~15:50  **Oral talk** | **(A06)** Influence of the grain-size on the persistent luminescence of Y3Al2Ga3O12:Cr3+ phosphors co-doped with Ce3+ and Pr3+  **Zhengfa Dai**, Polish Academy of Sciences, Połand | | **(B06)** Robust and efficient phosphor converters for solid state laser lighting  **Shuxing Li**, Xiamen University, China | | **(C06)** A novel UV-A emitting Ca3Al4ZnO10:Ti4+ phosphor with Ca2+ vacancies for plant growth LED lighting  **Zhi Zhou**, Hunan Agricultural University, China | | | **(D06)** Actively Targeted Deep Tissue Imaging and Photothermal-Chemo Therapy of Breast Cancer by Bismuth Sulfde@PS Core–Shell Nanoparticles  **Lihua Li**, South China University of Technology, China | |
| 15:50~16:05 | **Coffee Break** | | | | | | | | |
|  | **Chairs: Gang Han, Hongwu Zhang** | | **Chairs: Jianhua Hao, Shiqing Xu** | | **Chairs: Setsuhisa Tanabe, Chongfeng Guo** | | | **Chairs: Haibo Zeng, Lining Sun** | |
| 16:05~16:30  **Keynote talk** | **(A07)** Nanoparticles as a light transducer for phototherapy  **Yong Zhang**, National University of Singapore, Singapore | | **(B07)** *Ab* initio calculations on the energy levels of single-valent lanthanide ions in solids and intercalated electron transfer states  **Luis Seijo**, Universidad Autónoma de Madrid, Spain | | **(C07)** Exploration of Afterglow Nanoparticles To Activate Photodynamic Therapy For Deep Cancer Treatment  **Wei Chen**, University of Texas at Arlington, USA | | | **(D07)** Photon-in photon-out spectroscopy using synchrotron radiation: a powerful tool for the investigation of light emitting materials and devices  **T. K. Sham**, Western University, London Canada | |
| 16:30~16:50  **Invited talk** | **(A08)** Long afterglow Luminescent Nanoparticles for Super-long Time *in vivo* and *in situ* Imaging  **Hongwu Zhang**, Institute of Urban Environment, China | | **(B08)** Combustion synthesis, structure and luminescence of Eu–doped CeO2-La2O3 composite powders  **Shikao Shi**, Hebei Normal University, China | | **(C08)** NIR-to-NIR long persistent luminescence within the biological transmission window for remote activation and tracing of bio-labels in deep tissues  **Yang Li**, Guangdong University of Technology, China | | | **(D08)** Smart Self-assembled Nanosystem Based on Water-soluble Pillararene and Rare Earth Doped-Upconversion Nanoparticles for pH-Responsive Drug Delivery  **Lining Sun**, Shanghai University, China | |
| 16:50~17:10  **Invited talk** | **(A09)** Bioimaging with Clearable Lanthanide-doped Core/Shell Nanocrystals  **Guanying Chen**, Harbin Institute of Technology, China | | **(B09)** New strategies for improving the thermal stability of phosphors  **Li Wu**, Nankai University, China | | **(C09)** Strategy for Realizing Ratiometric Optical Thermometry via Efficient Tb3+-Mn2+ Energy Transfer in Novel Apatite-type Phosphor Ca9Tb(PO4)5(SiO4)F2  **Lefu Mei**, China University of Geosciences Beijing, China | | | **(D09)** Lanthanide-Organic Polyhedra: New Arena for Supramolecular Chemistry  **Qing-Fu Sun**, Fujian Institute of Research on the Structure of Matter， CAS, China | |
| 17:10~17:25  **Oral talk** | **(A10)** Discovery of coordination geometry-dependent multi-band emission and atypically deep-traps-dominating NIR long persistent luminescence from  **Xiaohui Lin**, Guangdong University of Technology, China | | **(B10)** A color-tunable stannate phosphor depending on atmosphere conditions  **Zhongxian Qiu**, Hunan Normal University, China | | **(C10)** The optimization of Mn4+ -doped persistent luminescent phosphors  **Jiaren Du**, Ghent University, Ghent, Belgium | | | **(D10)** Carbon dots grafted phosphor for multifunctional application  **Wei Li**, South China Agricultural University, China | |
| 17:25~17:50  **Keynote talk** | **(A11)** | | **(B11)** Novel functional materials and 4f chemistry  **Dongfeng Xue**, Changchun Institute of Applied Chemistry, CAS, China | | **(C11)** Charging persistent phosphors using low-energy light sources  **Zhengwei Pan**, University of Georgia, USA | | | **(D11)** | |
| 17:50~18:40 | **Poster Presentation**  Amber Golden Ballroom 1 and 2 | | | | | | | | |
| 18:40~20:30 | **Banquet** 3rd Floor, Indigo Grand ballroom | | | | | | | | |

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| **AM, April 6, 2018 (Day 3)** | | | | |
|  | **Session A** | **Session B** | **Session C** | **Session D** |
|  | **Chairs: Rongjun Xie, Shixun Lian** | **Chairs: Pieter Dorenbos, Junjie Zhang** | **Chairs: Zhengwei Pan, Weiren Liu** | **Chairs: Andries Meijerink, Hai Guo** |
| 8:30~8:55  **Keynote talk** | **(A12)** Long-Lasting Nanophosphors Applied in Perovskite Solar Cells  **Hongwei Song**, Jilin University, China | **(B12)** Control of Luminescence via Tuning of Crystal Symmetry and Local Structure in Mn4+ -Activated Narrow Band Fluoride Phosphors  **Ru-Shi Liu**, National Taiwan University | **(C12)** Pushing the limits of persistent phosphors  **Philippe F. Smet**, Ghent University, Belgium | **(D12)** Wavelength tunable single- band upconversion luminescence with ultralong lifetime from fluoride perovskites ABF3:Yb3+, Mn2+  **Qinyuan Zhang**, South China University of Technology, China |
| 8:55~9:15  **Invited talk** | **(A13)** Bi3+ phosphors and thermal degradation  **Mingying Peng**, South China University of Technology, China | **(B13)** Mn4+ activated fluoride and oxyfluorid phosphor: synthesis, structure and luminescence properties on facet-dependent crystals  **Huan Jiao**, Shaanxi Normal University, China | **(C13)** NIR persistent luminescent Cr3+ ion activated zinc gallate nano- probes for optical and MRI bioimaging  **Jing Wang**, Sun Yat-Sen University, China | **(D13)** Scandium-Based Luminescent Nanomaterials  **Ling Huang**, Nanjing Tech University 211800, China |
| 9:15~9:35  **Invited talk** | **(A14)** Our recent design philosophy on the optical properties of 3d, 6s2 and 4f ions doped in solids  **Chonggeng Ma**, Chongqing University of Posts and Telecommunications, China | **(B14)** Enhanced Optical Performance of the GAGG:Ce3+ Persistent Phosphors for AC-Based White LEDs  **Yongfu Liu**, Ningbo Institute of Materials of Technology and Engineering, CAS, China | (**C14)** La6Ba4Si6O24F2:Sm3+ novel red- emitting phosphors: Synthesis, photoluminescence and theoretical calculations  **Weiren Liu**, Chung Yuan Christian University | **(D14)** Application of Rare Earth Complexes as Sensitizer in Organic Light-Emitting Diodes  **Liang Zhou,** Changchun Institute of Applied Chemistry, CAS, China |
| 9:35~9:50  **Oral talk** | **(A15)** Probing the trap distribution in the NIR persistent phosphor LiGa5O8:Cr  **Olivier Q. De Clercq**, Ghent University, Ghent, Belgium | **(B15)** Synthesis and characterization of aluminophosphate glasses with unique blue emission  **Hongli Wen**, Guangdong University of Technology, China | **(C15)** A New Long-Persistent Phosphor Zn3Ga2Si2O4: Cr3+  **Xu Li**, Hebei University, China | **(D15)** Design of novel red persistent Eu3+ doped oxysulfide phosphors by co-doping lanthanide ions  **Atsunori Hashimoto**, NEMOTO LUMI-MATERIALS CO, Japan |
| 9:50~10:05  **Oral talk** | **(A16)** Single-crystal Strontium Aluminate thin films by pulsed laser deposition  **Huan Ma**, Swiss Federal Laboratories for Materials Science and Technology, Switzerland | **(B16)** The correlation between crystal structure and luminescence properties of LuBO3:Ce3+ using combinational materials chips technology  **Zhijun Zhang**, Shanghai University, China | **(C16)** Reversible X‑ray-Induced Valence Reduction of Yb-doped CaF2. An ab initio interpretation.  **Zoila Barandiarán**, Universidad Autónoma de Madrid, Spain | **(D16)** Can plasmon suppress the concentration quenching of Eu3+ in Au/SiO2/Y2O3:Eu3+ nanoparticles?  **Min Liu**, University of Science and Technology of China, Hefei, China |
| 10:05~10:20  **Oral talk** | **(A17)** Tuning the luminescence of lanthanide ions-doped ferroelectrics through physical methods  **Yang Zhang**, Nankai University, China | **(B17)** Fabrication and photoluminescence of Ce doped YAG, GdYAG and LuAG transparent ceramics for LED and laser lighting  **Yun Shi**, Shanghai Institute of Ceramics, China | **(C17)** Tunable luminescence of Cr3+ doped germinate phosphor for bioimaging  **Qiongyu Bai**, Beijing Jiaotong University, China | **(D17)** In3+ co-doped YPO4:Tb3+ phosphors: hydrothermal synthesis and optical properties  **Jinyu Yang**, Guizhou Normal University, China |
| 10:20~10:35 | **Coffee Break** | | | |
|  | **Chair: Bruno. Viana, Guoping Dong** | **Chairs: Jianbei Qiu, Mingying Peng** | **Chair: Jianrong Qiu, T.K. Sham** | **Chair: Quanlin Liu, Jumpei Ueda** |
| 10:35~11:00  **Keynote talk** | **(A18)** Ionizing radiation induced storage luminescence  **Takayuki Yanagida**, Nara Institute of Science and technology, Japan | **(B18)** Persistent Luminescence: Focus on Energy Storage  **Jorma Hölsä**, Turku University, Finland | **(C18)** Materials design, synthesis and application of nitride luminescent materials  **Rongjun Xie**, Xiamen University, China | **(D18)** Recent Progress in Ultra-long Multi-color Persistent Phosphors  **Yuhua Wang**, Lanzhou University, China |
| 11:00~11:20  **Invited talk** | **(A19)** Tuning lanthanide luminescence in core-shell nanoparticles  **Feng Wang**, City University of Hong Kong, China | **(B19)** Achieving Long-Term Thermal Stability of LED-phosphor through Trapping and Releasing Process of Carriers with the Assist of Introduced Defects  **Jianbei Qiu**, Kunming University of Science and Technology, China | **(C19)** Recent advances in bismuth activated materials  **Hongtao Sun**, Soochow University, China | **(D19)** Insight into Ln2+ state as electron trap in persistent phosphors  **Jumpei Ueda**, Kyoto University, Japan |
| 11:20~11:35  **Oral talk** | **(A20)** Charge carrier trapping processes in lanthanide doped La-, Gd-, Y-, and LuPO4  **Tianshuai Lyu**, Delft University of Technology, Netherlands | **(B20)** Determining the storage capacity of persistent phosphors  **David Van der Heggen**, Ghent University, Belgium | **(C20)** Luminescence properties of novel NIR luminescent materials Li2Zn1-*x-y*MyGe3O8:*x*Mn2+ (M = Mg/Sr/Ba) by selective manipulation  **Panlai Li**, Hebei University, China | **(D20)** Cr3+ multi-sites near-infrared persistent luminescence and energy transfer properties in Ca3Ga2Ge3O12  **Huihong Lin**, Hanshan Normal University, China |
| 11:35~11:50  **Oral talk** | **(A21)** Manipulation of Upconversion Luminescence by Photonic Crystals with High Refractive Index  **Suli Wu,** Dalian University of Technology, China | **(B21)** Persistent luminescence and blue photochromism in Eu2+-Dy3+ codoped barium silicate glass ceramic  **Kazuki Asami**, Kyoto University, Japan | **(C21)** A Promising oxonitridosilicate Phosphor Ba3Si3O3N4: Eu2+ and its O/N ordering Analysis  **Xiao-Ming Wang**, Shaanxi Normal University, China | **(D21)** Persistent Luminescence CdSiO3:Eu2+: To be or not to be?  **Lucas C.V. Rodrigues**, Finland and Turku University Centre for Materials and Surfaces, Finland |
| 11:50~ | **Lunch** | | | |

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| **PM, April 6, 2018 (Day 3)** | | | | |
|  | **Session A** | **Session B** | **Session C** | **Session D** |
|  | **Chair: Hongwei Song, Bin Dong** | **Chair: Jean-Claude G. Bünzli, Li Liu** | **Chair: Yuhua Wang, Hongbin Liang** | **Chair: Luís D. Carlos, Shifeng Zhou** |
| 14:00~14:25  **Keynote talk** | **(A22)** All-Inorganic Perovskite QLEDs Towards Flexible High-Definition Displays  **Haibo Zeng**, Nanjing University of Science & Technology, China | **(B22)** Lanthanide-Doped Luminescent Nanoprobes for In-Vitro Detection of Tumor Markers  **Xueyuan Chen**, Fujian Institute of Research on the Structure of Matter， CAS, China | (**C22)** Engineering of persistent luminescence and storage phosphors  **Pieter Dorenbos**, Delft University of Technology, Netherlands | **(D22)** Synthesis nanoparticles with long lasting luminescence for bioimaging  **Claudia Wickleder**, University of Siegen, Germany |
| 14:25~14:45  **Invited talk** | **(A23)** Long afterglow emission of carbon dots and applications  **Hengwei Lin**, Ningbo Institute of Mater. Tech. & Eng., CAS, China | **(B23)** Combretastatin A-4 phosphate causes prolonged elevation of proteins involved in heme flux and function in H1299 lung tumor  **Li Liu**, The University of Texas Southwestern Medical Center, USA | **(C23)** Bandgap tailoring in garnet persistent phosphor for AC-LED application  **Hang Lin**, Fujian Ins. Res. on the Structure of Matter, CAS, China | **(D23)** Upconversion Luminescence- Activated Nanoprobe for Precise Detection  **Lele Li**, National Center for Nanoscience and Technology, China |
| 14:45~15:05  **Invited talk** | **(A24)** Specially engineered quantum dots for efficient luminescent solar concentrators  **Hongbo Li**, Beijing Institute of Technology, China | **(B24)** Rare earth luminescent nanomaterials for bioimaging and biodetection  **Wei Feng**, Fudan University, China | **(C24)** Highly sensitive ratiometric temperature sensor based on Yb3+/Nd3+/Er3+ co-doped La2O3 micro-crystals  **Guojun Gao**, Karlsruhe Institute of Technology, Eggenstein- Leopoldshafen, Germany | **(D24)** Long-afterglow Phosphorescent Metal-Organic Frameworks:  Assembly and Applications  **Dongpeng Yan**, Beijing Normal University, China |
| 15:05~15:20  **Oral talk** | **(A25)** Crystal defects in C3N4 quantum dots and luminescence thereof  **Lei Chen**, Hefei University of Technology, China | **(B25)** Label-free Raman Imaging to Monitor Breast Tumor Signatures  **Felicia S. Manciu**, University of Texas at El Pas, USA | **(C25)** Trap depth engineering in oxynitride Persistent Luminescence Materials and their applications in optical information storage  **Yixi Zhuang**, Xiamen Univesity, China | **(D25)** KLa(MnO4)2:Er3+/Yb3+ upconverting phosphor for application in optical temperature sensing  **Yuhong Zhang**, Jilin Jianzhu University, China |
| 15:20~15:35  **Oral talk** | **(A26)** Facile synthesis of porous N-doped carbon dots (NCDs)/g-C3N4  **Xuechun Yang**, Shanghai University, China | **(B26)** Wavelength-tunability and multi-band emission from single-site Mn2+ doped CaO through antiferromagnetic coupling and tailored super-exchange reactions  **Enhai Song**, South China University of Technology, China | **(C26)** Blue emitting aluminum hydroxide phosphor for UV pumped white light-emitting devices  **Bingkun Chen**, Beijing Institute of Technology, China | **(D26)** Temperature, Stress, pH, and Other Sensing Applications of Luminescent Materials  **Weiwei Zhang**, Nanchang Hangkong University, China |
| 15:35~15:50  **Oral talk** | **(A27)** Multicolor-emitting polymeric g-C3N4  **Qianyi Guo**, South China University of Technology, China | **(B27)** Light Conversion Material: LiBaPO4: Eu2+, Pr3+, suitable for solar cell  **Yan Chen**, Wuyi University, China | **(C27)** Temperature-dependent Photoluminescence and energy transfer of PbS quantum dot-doped glass  **Xiongjian Huang**, South China University of Technology, China | **(D27)** Preparation and luminescence properties of Bi3+-doped Ca5(SiO4)2F2 blue-emitting phosphors  **Bin Deng**, Xiangnan University, China |
| 15:50~16:05 | **Coffee Break** | | | |
|  | **Chair: Mikhail G. Brik, Guogang Li** | **Chair: Wei Chen, Baojiu Chen** | **Chair: Jiahua Zhang, Huanrong Li** | **Chair: Quan Yuan, Bo Zhou** |
| 16:05~16:25  **Invited talk** | **(A28)** Studies on the gas pressure sensing performance of SrAl2O4: Eu,Dy  **Chengyu Li**, Changchun Institute of Applied Chemistry, CSA, China | **(B28)** NaYF4-based homogeneous core-shell structured photothermal agents with temperature optical feedback for photothermal therapy  **Baojiu Chen**, Dalian Maritime University, China | **(C28)** Lanthanide complex-based luminescent hybrid materials  **Huanrong Li**, Hebei University of Technology, China | **(D28)** Controlling Upconversion through Interfacial Energy Transfer  **Bo Zhou**, South China University of Technology, China |
| 16:25~16:45  **Invited talk** | **(A29)** Spectroscopic properties of Y4Al2O9:Ce crystals under high pressure  **Andrzej Suchocki**, Polish Academy of Sciences, Poland | **(B29)** The red persistent luminescence of CaS:Yb2+  **Yanmin Yang**, Hebei University, China | **(C29)** Metal-Organic Frameworks for Photonics Functional Applications  **Yuanjing Cui**, Zhejiang University, China | **(D29)** Researches on Temperature Sensing Mechanism and Biological Application of Rare Earth Ions Doped Upconversion Luminescent Materials  **Zuoling Fu**, Jilin University, China |
| 16:45~17:05  **Invited talk** | **(A30)** Luminescence of Eu2+ activated Li2MSi(O,N)4 (M = Ca, Sr, Ba) phosphors  **Mengmeng Shang**, Qingdao University, China | **(B30)** Nanoplasmonic Upconverting Nanoparticles as Orientation Sensors for Single Particle Microscopy  **Shuang Fang Lim**, North Carolina State University, USA | **(C30)**A Eu/Tb Co-doped Compound Base on MOF-5 for Luminescent High-Temperature Sensing and White Light Emission  **Huili Li**, East China Normal University, China | **(D30)** Electronically Active Intrinsic Vacancies as Surface Energy Confine Transfer Routes in Upconversion Nanoparticles  **Bolong Huang**, The Hong Kong Polytechnic University, China |
| 17:05~17:20  **Oral talk** | **(A31)** Quantum efficiencies and thermoluminescence measurements of SrAl2O4:Eu2+ with different concentration of Eu2+  **Teresa Delgado**, Geneva University, Switzerland | **(B31)** Bright Green Upconversion luminescence of Nd3+ doped LiGd(WO4)2 :Er3+/Yb3+ excited at 980nm/808nm  **Li Luo**, Guangdong University of Technology, China | **(C31)** Singly-doped ratiometric NIR luminescent thermometers: The case of Bi2Ga4O9:Cr3+ system  **Michele Back**, Kyoto University, Japan | **(D31)** Energy transfer processes in Nd3+/Yb3+ codoped K2YF5  **Qiufeng Shi**, Taiyuan University of Technology, China |
| 17:20~17:35  **Oral talk** | **(A32)** Non-destructive probing of Eu2+/3+ in the EuAl2O4 persistent phosphor using magnetic measurements  **Edward Lee**, University of the Free Stat, South Africa | **(B32)** Red to near infrared ultralong lasting luminescence from Mn2+-doped sodium gallium aluminum germanate glasses and (Al,Ga)-albite glass-ceramics  **Xiu Wang**, South China University of Technology, China | **(C32)** Mechanoluminescence properties of Mn2+-doped BaZnOS phosphor  **Lejing Li**, South China University of Technology, China | **(D32)** Studies of Photodynamic Therapy on Hepatocellular Carcinoma Cell SMMC-7721 in Vitro and in Vivo Effect and Mechanism by Phthalocyanine Based Photodynamic Molecular Beacon  **Xiangyu Chen,** The second Xiangya Hospital, Central South University, China |
| 18:00~19:15 | **Buffet Dinner** | | | |
| 19:30~21:00 | **Committee Meeting**   1. Collection at the hotel lobby at 19:30 and walk to the conference room. 2. Meeting at the School of Physics, Beihang University (In the campus, third floor of main building) | | | |

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| **AM, April 7, 2018 (Day 4)**  (3rd Floor, Indigo Grand ballroom) | | | |
| **Plenary Talk (IV)**  **Chair: Qinyuan Zhang** (South China University of Technology, China) | | | |
| 8:30~9:05 | **(PT06)** Persistent luminescent nanoprobes for bio-imaging application | **Bruno. Viana** | PSL Research University, France |
| 9:05~9:40 | **(PT07)** Prospects on Rare Earth Luminescent Nanomaterials | **Ling-Dong Sun** | Peking University, China |
| 9:40~10:00 | **Coffee Break** | | |
| **Plenary Talk (V)**  **Chair: Xueyuan Chen** (Fujian Institute of Research on the Structure of Matter, CAS, China) | | | |
| 10:00~10:35 | **(PT08)** Overcoming concentration quenching to build brighter nanocrystals | **Dayong Jin** | University of Technology Sydney, Australia |
| 10:35~11:10 | **(PT09)** Exciting luminescent lanthanide probes and materials | **Jean-Claude G. Bünzli** | Swiss Federal Institute of Technology, Switzerland |
| 11:10~11:40 | **Closing Ceremony and Announcement for Next Host**  **Chair: Zhiguo Xia** | Closing remarks by  **Prof. Zhengwei Pan** (University of Georgia, USA)  **Prof. Junying Zhang** (Workshop co-chair, Beihang University)  **Presentations by Chairman of 5PPP** | |
| 11:40~13:00 | **Lunch** | | |
| 14:00~18:00 | **Sightseeing in Olympic Parks** | | |
| 18:30 | **Dinner** | | |

**Poster Presentation (Amber Golden Ballroom 1 and 2) Session**

Size: 120cm × 90cm

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|  | **Title** | **Poster** | **Affiliation** |
| P01 | Thermoluminescence characteristics of Nd doped LiCaAlF6 single crystal | Noriaki Kawaguchi | Nara Institute of Science and Technology, Japan |
| P02 | Luminescence properties of ZnNb2O6:Eu3+/Er3+ phosphors for white LEDs | Boxin Liang | Guangdong University of Technology, China |
| P03 | Investigation of the long afterglow mechanism in SrAl2O4: Eu2+/Dy3+ by optically stimulated luminescence and thermoluminescence | Peng Zeng | University of Science and Technology of China |
| P04 | Probing ion motion via upconversion luminescence of Yb3+-Er3+ in inorganic functional materials | Qian He | South China University of Technology, China |
| P05 | Preparation and characterization of an ultra-long cyan long afterglow luminescent material | Peng Feng | Lanzhou University, China |
| P06 | Tunable emission and energy transfer in single-phased SrY2O4:Bi3+,Eu3+ for UV W-LEDs | Rongfei Wei | Zhejiang Normal University, China |
| P07 | Optical thermometry based on up-conversion luminescence of Tm3+-doped Na5Yb9F32 glass ceramics | Fangfang Hu | Zhejiang Normal University, China |
| P08 | Up-conversion thermal sensor and optical heater of SrMoO4: Yb3+/ Er3+ phosphor | Yanling Wei | Jilin Engineering Normal University, Chian |
| P09 | Unique tunable upconversion luminescence pattern and directional radiation of single NaYF4:Yb3+/Er3+ microcrystal | Qingyan Han | Xi’an University of Post & Telecommunications, China |
| P10 | Broadband Near-infrared Emission from  Transparent Rare-earth Doped Nanocrystal-glass Composites | Qiwen Pan | South China University of Technology, China |
| P11 | Upconversion luminescence behavior of rare-earth ions doped single NaYF4 microrod | Dandan Yang | South China University of Technology, China |
| P12 | Tunable and White-Light Emission nitride phosphors Ca2Si5N8:Ce3+, Eu2+ | Chao Li | Shaanxi Normal University， China |
| P13 | The trapping and detrapping behaviors involved for the persistent performance of BaHf/ZrSi3O9:Eu2+,Pr3+ | Haijie Guo | Lanzhou University, China |
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| P15 | Design, preparation and characterization of red long-persistent perovskite phosphors: Pr3+:Can+1TinO3n+1 (n=1,2•••∞) | Bo Wang | Wuyi University, China |
| P16 | Photoluminescence and afterglow behavior of a blue emitting long persistent luminescence phosphor CaScAlSiO8:Eu2+,Dy3+ | Lu Zhao | University of Science and Technology of China |
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| P24 | Photoluminescence and energy transfer mechanism of color-tunable Phosphor CaSrAl2SiO7:Ce3+,Tb3+ | Haiyan Jiao | Northwest University for Nationalities, China |
| P25 | Tunable NIR long persistent luminescence and discovery of trap-distribution-dependent excitation enhancement in transition metal doped weak-crystal-field CaZnGe2O6 | Ru Kang | Guangdong University of Technology, China |
| P26 | Study on Alkaline Earth Aluminate Sr(Al/Ga)2O4: 1%Eu2+,2%Dy3+--A Solid-Solution Persistent Phosphor | Jiashan Mao | University of Science and Technology of China, China |
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