2016 年度北京同步辐射装置用户科技论文汇总目录

序号	文章题目	期刊，年份，卷（期），页码	作者
1	A bismuth based layer structured organic–inorganic hybrid material with enhanced photocatalytic activity	Journal of Colloid and Interface Science, 2016, 469, 2016, 231 – 236	Yuanyuan Liu
2	1, 2, 3, 4-bis (p-methylbenzylidene sorbitol) accelerates crystallization and improves hole mobility of poly (3-hexylthiophene)	Nanotechnology, 27 (2016) 06LT01	Nana Yuan
3	A balanced cation exchange reaction toward highly uniform and pure phase FA 1- x MA x PbI 3 perovskite films	Journal of Materials Chemistry A, 4,14437, 2016	Fuxiang Ji
4	A Copper(II) Complex Based on N-(4-hydroxybenzyl)-L-serine: Synthesis, Crystal Structure and Inhibitory Activity on PTP1B and TCPTP	Chinese Journal of Structural Chemistry, 35,1686-1693, 2016	YanHong Li
5	A Feathered Dinosaur Tail with Primitive Plumage Trapped in Mid-Cretaceous Amber	Current Biology, 26 (24), 2016, 3352 – 3360	Lida Xing
6	A Long-Lived Mononuclear Cyclopentadienyl Ruthenium Complex Grafted onto Anatase TiO2 for Efficient CO2 Photoreduction	Angew. Chem. Int. Ed., 128 (29), 2016, 8454 – 8458	Haowei Huang
7	A new technique to measure the differential XAFS spectrum	Chinese Physics C, 2016,4,131-135	吴敏
8	A One-dimensional Cd(II) Coordination Polymer Constructed from 1,4-Benzene-dicarboxylic Acid and 3-(2,6-Di(pyrazin-2-yl)pyridin-4-yl)-1H-indole: Synthesis, Structure and Photoluminescence	Chinese J. Struct. Chem., 35,1606-1614, 2016	Ling Xie
9	A Preliminary Study on Sinus Fungus Ball with MicroCT and X-Ray Fluorescence Technique	PLoS ONE, 11(3):e0148515(2016)	Zidong Jiang
10	A reactive-template strategy for high yield synthesis of N-doped graphene and its modification by introduction of cobalt species for significantly enhanced oxygen reduction reaction	Electrochimica Acta, 210, 2016, 328 – 336	Shuguang Wang
11	A three-dimensional mixed-valence Cu(II)/Cu(I) coordination polymer constructed from biphenyl-3,4',5-tricarboxylate and 1,4-bis(1H-imidazol-1-yl)benzene ligands	Acta Cryst C, 72: 358-362, 2016	YaHui Liu

12	A two-dimensional mixed-valence Cu(II)/Cu(I) coordination polymer constructed from 2-(pyridin-3-yl)-1H-imidazole-4,5-dicarboxylate	Acta Cryst C, 72：652-657, 2016	张丽阳
13	Active Site Dependent Reaction Mechanism over Ru/CeO2 Catalyst toward CO2 Methanation	J. Am. Chem. Soc., 2016, 138 (19), 6298－6305	Fei Wang
14	Air-stable and highly luminescent bismuth complex nanoparticles	J. Mater. Chem. C, 2016, 4, 4899-4904	Dan-Dan Zhou
15	All-Carbon Ultrafast Supercapacitor by Integrating Multidimensional Nanocarbons	Small, 2016, 12(41): 5684-5691.	Changda Wang
16	Amorphous Vanadium Oxide/Molybdenum Oxide Hybrid with Three-Dimensional Ordered Hierarchically Porous Structure as a High-Performance Li-Ion Battery Anode	Chem. Mater., 2016, 28 (12), 4180－4190	Di Zhao
17	An algorithm for circular test and improved optical configuration by two-dimensional (2D) laser heterodyne interferometer	Rev. Sci. Instrum., 87 (09):095103-1, 2016	汤善治
18	An in situ resonant photoemission and x-ray absorption study of the BiFeO 3 thin film	Ceramics International, 2016, 42(9): 10624-10630.	Ablat A.
19	An isoindigo-bithiazole-based acceptor-acceptor copolymer for balanced ambipolar organic thin-film transistors	Science China-Chemistry, 59 (6), 679－683, 2016	Ping Li
20	An Unprecedented Two-Fold Nested Super-Polyrotaxane: Sulfate-Directed Hierarchical Polythreading Assembly of Uranyl Polyrotaxane Moieties	Chem. Eur. J., 22(32): 11329-11338, 2016	梅雷
21	An unusual 32-membered copper(II) metallomacrocube based on a Cu4O3X cubic core: photocatalytic, electrocatalytic, and magnetic properties	Chem. Commun., 52, 4294--4297, 2016	冯思思
22	Analytic signal extraction approach based on 2D Grating Interferometer and systematic comparison between 2D GI and 1D case	Journal of Instrumentation, 11,C03031,2016	Z. Ju
23	Angular signal radiography	OPTICS EXPRESS, 24(6):5829-45(2016)	Panyun Li
24	Anisotropic Charge-Carrier Transport in High-Mobility Donor– Acceptor Conjugated Polymer Semiconductor Films	Chemistry--An Asian Journal, 11(19), 2725－2729, 2016	Zhiyuan Zhao
25	Application of electrochemical depassivation in PRB systems to recovery Fe0 reactivity	Front. Environ. Sci. En., 2016, 10: 4.	Xin Lu

26	Application of Mythen detector: In-situ XRD study on the thermal expansion behavior of metal indium	SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY, 59:677011, 2016	Rong Du
27	Approaching high charge carrier mobility by alkylating both donor and acceptor units at the optimized position in conjugated polymers	Polymer Chemistry, 7,4046, 2016	Dong Gao
28	Aquointermediate Assisted Highly Orientated Perovskite Thin Films toward Thermally Stable and Efficient Solar Cells	Advanced Energy Materials, 2016,1601433	Wenzhe Li
29	Aryl-fused tetrathianaphthalene (TTN) synthesis, structures, properties, and cocrystals with fullerenes	RSC Adv., 6, 79978, 2016	YanTao Sun
30	A-site ordered perovskite CaCu3Cu2Ir2O12−δ with square-planar and octahedral coordinated Cu ions	Chinese Physics B,2016, 25(2): 020701	Zhao Qing
31	Atomic packing in Fe-based metallic glasses	Acta Materialia, 102, 2016, 116–124	Q. Yu
32	ATP binding by the P-loop NTPase OsYchF1 (an unconventional G protein) contributes to biotic but not abiotic stress responses	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA (PNAS), 2016, 1522966113	Ming-Yan Cheung
33	Behaviors of Zn2GeO4 under high pressure and high temperature	Chinese Physics B, 2016,25,076101	杨淑雯
34	Benzothiophene-flanked diketopyrrolopyrrole polymers: impact of isomeric frameworks on carrier mobilities	RSC Adv., 2016, 6, 83448	Jianyao Huang
35	Biaxial stretch-induced crystallization of poly(ethylene tere phthalate) above glass transitiontemperature: The necessary of chain mobility	POLYMER, 2016, 15–23	Zhang, Qianlei
36	Bioleaching of chalcopyrite by Acidianus manzaensis under different constant pH	Minerals Engineering, 2016, 98: 80-89.	Liu H.

37	Ca2O3Fe2.6S2: an antiferromagnetic Mott insulator at proximity to bad metal	JOURNAL OF PHYSICS-CONDENSED MATTER, 28, 145701, 2016	Han Zhang
38	Calibration of instrument and sample parameters for small angle X-ray scattering	INSTRUM SCI TECHNOL, 2016, 521–536	魏艳茹
39	Catalytic performance and mechanism of N-CoTi@CoTiO 3 catalysts for oxygen reduction reaction	Nano Energy, 2016: 134-143.	Li An
40	Cd-doping a facile approach for better thermoelectric transport properties of BiCuSeO oxyselenides	RSC Advances, 2016, 6(40): 33789-33797.	M. U. Farooq
41	Characterization of a quasi-sinusoidal transmission grating without membrane substrate in the 200–1500 eV photon energy regions	Journal of Modern Optics, 63, 261–268, 2016	Chuanke Wang
42	Characterizing Ni(II) hydration in aqueous solution using DFT and EXAFS	Journal of Molecular Modeling, 2016, 22:2	H. Y. Liu
43	Chemical and Biological Transformation of Nano- and Submicron-Sized Ferric Oxide Particles in the Central Nervous System	Journal of Nanoscience and Nanotechnology, 16, 2016, 5553-5561(9)	汪冰
44	Chirality of Graphene Oxide-Humic Acid Sandwich Complex Induced by Twisted and Long-Range Ordered Nanostructure	Journal of Physical Chemistry C, 2016, 25789−25795	Xiaoyan Zhou
45	Chromium immobilization by extra- and intraradical fungal structures of arbuscular mycorrhizal symbioses	Journal of Hazardous Materials, 316, 2016, 34–42	Songlin Wu
46	Chromium immobilization by extraradical mycelium of arbuscular mycorrhiza contributes to plant chromium tolerance	Environmental and Experimental Botany, 2016, 122, 10-18	Songlin Wu
47	Circular dichroism spectroscopy of membrane proteins	Chem. Soc. Rev., 2016,45, 4859	A. J. Miles
48	Colour-generating mechanism of copper-red porcelain from Changsha Kiln (A.D. 7th–10th century), China	Ceramics International, 42, 7, 2016, 8495–8500	Yuanqiu Li
49	Combined spectroscopic study on the growth mechanism of Diphosphine-stabilized Gold Nanoclusters	Journal of Physics: Conference Series, 2016,712,1	Jie Bao
50	Comparative metalloproteomic approaches for the investigation proteins involved in the toxicity of inorganic and organic forms of mercury in rice (Oryza sativa L.) roots	Metallomics, 8, 663--671, 2016	Yunyun Li

51	Composition of organic sulfur in riverine and marine sediments: Insights from sulfur stable isotopes and XANES spectroscopy	Organic Geochemistry, 2016, 99: 102-112.	Zhu M X
52	Confined Crystallization Behaviors of Cross-linked Comb-like Copolymers	CHINESE J POLYM SCI, 2016, 34,1039－1046	Xian-jing Gong
53	Conjugated Donor--Acceptor Polymers Entailing Pechmann Dye-Derived Acceptor with Siloxane-Terminated Side Chains Exhibiting Balanced Ambipolar Semiconducting Behavior	Macromolecules, 2016, 49 (16), 5857－5865	Si-Fen Yang
54	Conjugated Random Donor--Acceptor Copolymers of [1] Benzothieno [3, 2-b] benzothiophene and Diketopyrrolopyrrole Units for High Performance Polymeric Semiconductor Applications	Macromolecules, 2016, 49 (17), 6334－6342	Vishnu Sukumaran Nair
55	Conjugated terpolymers synthesized by incorporating anthracene units into the backbones of the diketopyrrolopyrrole-based polymers as electron donors for photovoltaic cells	Polymer Chemistry, 2016, 7, 6798	Huajun Ju
56	Consequences of ET and MMCT on Luminescence of Ce3+-, Eu3+-, and Tb3+-doped LiYSiO4	Inorganic Chemistry, 2016, 55, 7777−7786	Rui Shi
57	Construction of multifunctional materials based on Tb3+and croconic acid, directed by K+cations: synthesis, structures, fluorescence, magnetic and ferroelectric behaviors	CrystEngComm, 2016, 18(28): 5344-5352	YuQi Jia
58	Construction of Supramolecular Assemblies from Self-Organization of Amphiphilic Molecular Isomers	Chemistry, an Asian journal, 11, 2016, 2265－2270	Li Zhaohua
59	Continuous Flow Time-Resolved Small Angle X-Ray Scattering and X-Ray Absorption Spectroscopy	INSTRUMENTATION SCIENCE & TECHNOLOGY, 2016, 537-546	默广
60	Copper/Zinc-Directed Heterometallic Uranyl-Organic Polycatenating Frameworks: Synthesis, Characterization, and Anion-Dependent Structural Regulation	Inorg Chem, 55(20): 10125-10134, 2016	Ran Zhao
61	Creation of near-infrared luminescent phosphors enabled by topotactic reduction of bismuth-activated red-emitting crystals	J. Mater. Chem. C, 4, 9489-9498, 2016	Bo-Mei Liu
62	Crossed ferric oxide nanosheets supported cobalt oxide on 3-dimensional macroporous Ni foam substrate used for diesel soot elimination under self-capture contact mode	Nanoscale,2016,8, 5857-5864	Chunmei Cao
63	Crystal growth and optical characteristics of beryllium-free polyphosphate, KLa(PO3)4, a possible deep-ultraviolet nonlinear optical crystal	Scientific Reports, 2016, 6:25201	Pai Shan

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65	Crystal structure of CotA laccase complexed with 2,2-azinobis-(3-ethylbenzothiazoline-6-sulfonate) at a novel binding site	Acta Cryst F, 72：328-335, 2016	刘忠川
66	Crystal structure, luminescence properties and energy transfer of Eu3+/Dy3+ doped GdNbTiO6 broad band excited phosphors	RSC Adv., 2016, 6, 50797	N. Liu
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68	Crystallization assisted microphase separation in all-conjugated phenylene-thiophene diblock copolymers	Polymer, 97 (2016) 238-246	Hua Yang
69	CuxCo1−xO Nanoparticles on Graphene Oxide as A Synergistic Catalyst for High-Efficiency Hydrolysis of Ammonia–Borane	Angew. Chem. Int. Ed., 2016, 55, 11950-11954	Kun Feng
70	Deepening Insights of Charge Transfer and Photophysics in a Novel Donor-Acceptor Cocrystal for Waveguide Couplers and Photonic Logic Computation	Adv Mater., 28(28): 5954-5962, 2016	WeiGang Zhu
71	Deformation-induced crystalline structure evolutions of isotactic poly-1-butene	COLLOID POLYM SCI., 2016, 294, 1983 – 1988	Huilong Guo
72	Demethylation of methylmercury in growing rice plants: An evidence of self-detoxification	Environmental Pollution, 210, 113-120, 2016	Xiaohan Xu
73	Design and property study of micro-slot optics	Optics Communications, 386, 14 – 21, 2016	王雨婷
74	Design of Time-Resolved Shifted Dual Transmission Grating Spectrometer for the X-Ray Spectrum Diagnostics	Plasma Science &Technology, 18, 781, 2016	WANG Baoqing
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80	Direct investigations on strain-induced cold crystallization behavior and structure evolutions in amorphous poly (lactic acid) with SAXS and WAXS measurements	POLYMER, 2016, 111-121	Zhou Chengbo
81	Dislocation Reduction and Stress Relaxation of GaN and InGaN Multiple Quantum Wells with Improved Performance via Serpentine Channel Patterned Mask	ACS Applied Materials & Interfaces, 2016, 8 (33), 21480 – 21489	Qingbin Ji
82	Distribution and geochemical speciation of soil mercury in Wanshan Hg mine: Effects of cultivation	Geoderma, 272,2016,32 – 38	Runsheng Yin
83	Domain-reorientation-induced polarization wake-up of PbTiO 3 based ferroelectric thin films	Ceramics International, 42 (2016) 19212 – 19217	Linxing Zhang
84	Dual Electrical‐Behavior Regulation on Electrocatalysts Realizing Enhanced Electrochemical Water Oxidation	Advanced Materials, 28, 3326-3332, 2016	Kun Xu
85	Dual‐Responsive Viscoelastic Lyotropic Liquid Crystal Fluids to Control the Diffusion of Hydrophilic and Hydrophobic Molecules	CHEMPHYSCHEM, 2016, 2079-2087	Wang, Dong
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87	Effect of direct current pulses on mechanical and electrical properties of aged Cu-Cr-Zr alloys	MATERIALS & DESIGN, 92, 2016, 135 – 142	Wei Wang
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96	Efficient Reduction of CO2 into Formic Acid on a Lead or Tin Electrode using an Ionic Liquid Catholyte Mixture	Angew. Chem. Int. Ed., 2016, 55, 9012 －9016	朱庆宫
97	Efficient Visible-Light-Driven Carbon Dioxide Reduction by a Single-Atom Implanted Metal–Organic Framework	Angew. Chem. Int. Ed., 2016, 128, 14522-14526	Huabin Zhang
98	Elasticity Reinforcement in Propylene–Ethylene Random Copolymer Stretched at Elevated Temperature in Large Deformation Regime	Journal of Physical Chemistry C, 2016, 609-615	Zhao Jiayi
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112	Fabrication and photosensitivity of CdS photoresistor on silica nanopillars substrate	Materials Science in Semiconductor Processing, 2016, 56, 217-221	J. Liu
113	Fabrication and Photovoltaic Effect of CdS/Silicon Nanopillars Heterojunction Solar Cell	Chemistry Select, 2016, 1,4901-4905	J. Liu
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116	Facile Synthesis of Hierarchical Cu2MoS4 Hollow Sphere/Reduced Graphene Oxide Composites with Enhanced Photocatalytic Performance	J. Phys. Chem. C, 2016, 120 (24), 13120 – 13125	汪冰
117	Facile synthesis of iron oxide coupled and doped titania nanocomposites: tuning of physicochemical and photocatalytic properties	RSC Adv., 2016, 6, 72791-72802	Ayyakannu Sundaram Ganeshraja
118	Fluorescence mutation and structural evolution of a π-conjugated molecular crystal during phase transition	Journal of Materials Chemistry C, 2016, 4, 1257-1262	Yuanxiang Xu
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126	Fungal biomineralization of montmorillonite and goethite to short-range-ordered minerals	Geochimica et Cosmochimica Acta, 191, 2016, 17 – 31	Huan Li
127	Gas sensor based on ZnO film/silica pillars	Materials Research Express, 3125701, 2016	J. Liu
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132	HEPS-BPIX, a single photon counting pixel detector with ahigh frame rate for the HEPS project	NuclearInstrumentsandMethodsinPhysicsResearch A, 835(2016)169 – 176	Wei Wei
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137	High pressure behaviour and elastic properties of a dense inorganic–organic framework	Dalton Transactions, 2016, 45, 4303-4308	Guoqiang Feng
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142	Highly coplanar bis(thiazol-2-yl)-diketopyrrolopyrrole based donor–acceptor copolymers for ambipolar field effect transistors	RSC Advances, 2016, 6, 78008	Dong Gao
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147	Highly selective palladium-copper bimetallic electrocatalysts for the electrochemical reduction of CO2 to CO	Nano Energy, 27, 2016, 35－43	Zhen Yin
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149	High-performance alloy model-based ternary small molecule solar cells	Nano Energy, 30 (2016) 276－282	Qiaoshi An

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