



247th ACS National Meeting and Exposition
March 16-20, 2014, Dallas, Texas
Chemistry and Materials for Energy

Divisions

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Click the checkbox next to each item to add it to your itinerary.

COLL **Ramanathan Nagarajan** **Sunday, March 16, 2014**

Poster Session

Molecular-Like Metal Nanoparticles: New Opportunities for Energy and Healthcare Technologies - EVE Session

Location: Dallas Convention Center

Room: D165

Organizers: Gangli Wang, Jianping Xie, Jie Zheng

Duration: 6:00 pm - 8:00 pm

Pub #	Presentation Title
<input type="checkbox"/> 369	Crystallization of lysozyme using metal-assisted and microwave-accelerated evaporative crystallization Kevin Mauge-Lewis, Adeolu Mojibola, Kadir Aslan .
<input type="checkbox"/> 370	Dual-modal nanoprobe: Hybrid superparamagnetic iron-oxide and ultrasmall luminescent gold nanoparticles Rodrigo Vinluan , Jinbin Liu, Mengxiao Yu, Chen Zhou, Shengyang Yang, Amit Kumar, Orathai Thumthan, Shasha Sun, Andrew Dean, Yaowu Hao, Xiankai Sun, Jie Zheng.
<input type="checkbox"/> 371	Cellular uptake and intracellular dynamics of luminescent plasmonic silver nanoparticles with different surface chemistries Shasha Sun , Sishan Chen, Jinbin Liu.
<input type="checkbox"/> 372	Design and application of novel PMMA platform for microwave-accelerated bioassays Muzaffer Mohammed , KADIR ASLAN.

COLL **Ramanathan Nagarajan** **Tuesday, March 18, 2014**

Oral Session

Molecular-Like Metal Nanoparticles: New Opportunities for Energy and Healthcare Technologies - AM Session

Biomedical and Bioanalytical

Location: Dallas Convention Center

Room: D170

Organizers: Gangli Wang, Jianping Xie, Jie Zheng

Presiders: Amal Dass, Gangli Wang, Jianping Xie

Duration: 8:30 am - 12:10 pm

Pres Time	Pub #	Presentation Title
<input type="checkbox"/> 8:30 am	580	Optically modulated Ag cluster contrast agents Robert Dickson
<input type="checkbox"/> 9:00 am	581	DNA-templated silver clusters Jeffrey T Petty , Orlin O Sergev, David A Nicholson, Ian C Miller, D Ryan McMullan, Stuart K Graham, Banabihari Giri, Peter M. Goodwin.
<input type="checkbox"/> 9:30 am	582	Fluorescent molecular-like metal nanoclusters Jennifer S Martinez , James H. Werner, Hsin-Chih Yeh, Jaswinder Sharma, Andrew P. Shreve.
<input type="checkbox"/> 10:00 am	583	Biological applications of gold nanomolecules Christopher J Jeffrey

- Christopher J. James
- 10:30 am 584 [Ultrasmall photoluminescent metal nanoclusters at the nano-bio interface](#)
Li Shang, G. Ulrich Nienhaus.
- 11:00 am 585 [Bioimaging applications of luminescent gold nanoparticles](#)
Jie Zheng
- 11:30 am 586 [PEGylation and zwitterionization: Pros and cons in the renal clearance and tumor targeting of near-IR-emitting gold nanoparticles](#)
Jinbin Liu, Mengxiao Yu, Xuhui Ning, Chen Zhou, Shengyang Yang, Jie Zheng.
- 11:50 am 587 [Heterogeneous distribution and cell internalization dynamics of Au nanoclusters with enhanced near IR luminescence](#)
Cecil V Conroy, Jie Jiang, Chen Zhang, Tarushee Ahuja, Zhenghua Tang, Jonathan W Padelford, Gangli Wang.

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Ramanathan Nagarajan

Wednesday, March 19, 2014

Oral Session

Molecular-Like Metal Nanoparticles: New Opportunities for Energy and Healthcare Technologies - AM Session

Materials

Location: Dallas Convention Center

Room: D170

Organizers: Gangli Wang, Jianping Xie, Jie Zheng

Presiders: Jianping Xie, Jie Zheng

Duration: 8:30 am - 12:00 pm

- | | Pres Time | Pub # | Presentation Title |
|--------------------------|-----------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> | 8:30 am | 650 | Ligand-protected superatoms and superatomic molecules: Synthesis and characterization
<u>Tatsuya Tsukuda</u> |
| <input type="checkbox"/> | 9:00 am | 651 | Gold thiolate molecules: Nanoparticles of molecular definition
<u>Amala Dass</u> |
| <input type="checkbox"/> | 9:30 am | 652 | Toward the creation of functionalized metal nanoclusters and highly active photocatalytic materials by the use of thiolate-protected magic gold clusters
<u>Yuichi Negishi</u> |
| <input type="checkbox"/> | 10:00 am | 653 | Molecular silver nanoparticles
<u>Terry P. Bigioni</u> |
| <input type="checkbox"/> | 10:30 am | 654 | Enhanced optical properties in gold and silver metal clusters
<u>Theodore Goodson</u> |
| <input type="checkbox"/> | 11:00 am | 655 | Interfacial engineering and functionalization of nanoparticle materials
<u>Shaowei Chen</u> |
| <input type="checkbox"/> | 11:30 am | 656 | Exploring chalcogen interfacial chemistry for charge transfer in monolayer-protected metal nanoparticles
Yuan Gao, Yangwei Liu, <u>YuYe J. Tong</u> . |

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Ramanathan Nagarajan

Wednesday, March 19, 2014

Oral Session

Molecular-Like Metal Nanoparticles: New Opportunities for Energy and Healthcare Technologies - PM Session

Energy and Catalysis

Location: Dallas Convention Center

Room: D170

Organizers: Gangli Wang, Jianping Xie, Jie Zheng

Presiders: Gangli Wang, Jianping Xie

Duration: 2:00 pm - 5:30 pm

	Pres Time	Pub #	Presentation Title
<input type="checkbox"/>	2:00 pm	716	Atomically precise gold nanoclusters: Synthesis and catalytic application Rongchao Jin
<input type="checkbox"/>	2:30 pm	717	Combined optical and electrochemical methods for studying electrochemistry of single plasmonic nanoparticles Shanlin Pan , Caleb Hill, Jia Liu.
<input type="checkbox"/>	3:00 pm	718	Electrochemistry of functionalized <10 nm metal oxide nanoparticles for the determination of surface modification Joe JP Roberts , Royce W Murray.
<input type="checkbox"/>	3:20 pm	719	Single electron transfer reaction of atomically precise gold nanoclusters with the organic compound Manzhou Zhu
<input type="checkbox"/>	3:50 pm	720	Size-dependent charge separation and photocatalytic activity of ZnO-metal nanoparticle composites Dongqil Lee , Jaehyun Kim, Dukhan Kim.
<input type="checkbox"/>	4:20 pm	721	Stability and electrochemical activities of di- and mono- thiolates stabilized metal nanoclusters and their precursors Tanyu Wang , Jie Jiang, Cecil V Conroy, Tarushee Ahuja, Jonathan W Padelford, Gangli Wang.
<input type="checkbox"/>	4:40 pm	722	Highly sensitive monitoring of catalytic reactions by surface enhancement Raman spectroscopy using Au-Pd nanorods Yu Han
<input type="checkbox"/>	5:10 pm	723	From aggregation-induced emission of gold(I)-thiolate complexes to highly luminescent thiolate-protected gold nanoclusters Zhentao Luo , Jianping Xie.

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Ramanathan Nagarajan

Thursday, March 20, 2014

Oral Session

Molecular-Like Metal Nanoparticles: New Opportunities for Energy and Healthcare Technologies - AM Session

Theory and Structure

Location: Dallas Convention Center

Room: D166

Organizers: Gangli Wang, Jianping Xie, Jie Zheng

Presiders: Jianping Xie, Jie Zheng

Duration: 8:30 am - 12:00 pm

	Pres Time	Pub #	Presentation Title
<input type="checkbox"/>	8:30 am	777	Electronic structure studies of molecular-like plasmonic nanoparticles George C Schatz
<input type="checkbox"/>	9:00 am	778	Structure and properties of metal nanoclusters from synchrotron X-ray spectroscopy Peng Zhang
<input type="checkbox"/>	9:30 am	779	Structure-property relationships in thiolate-stabilized nanoparticles studied by DFT Christine M. Aikens
	10:00 am	780	WITHDRAWN
<input type="checkbox"/>	10:30 am	781	Structure determination of nanoparticles using stem diffraction Miguel Jose Yacaman
<input type="checkbox"/>	11:00 am	782	Structure prediction for molecule-like metal clusters De-en Jiang
<input type="checkbox"/>	11:30 am	783	Gold and silver dispersed by ligands: Electronic, optical, and bioconjugate properties Hannu Hakkinen

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Ramanathan Nagarajan

Thursday, March 20, 2014

Oral Session

Molecular-Like Metal Nanoparticles: New Opportunities for Energy and Healthcare Technologies - PM Session

Hot Topics

Location: Dallas Convention Center

Room: D170

Organizers: Gangli Wang, Jianping Xie, Jie Zheng

Presiders: Gangli Wang, Jie Zheng

Duration: 2:00 pm - 5:40 pm

	Pres Time	Pub #	Presentation Title
<input type="checkbox"/>	2:00 pm	838	Synthesis of PEGylated low generation dendrimer-entrapped gold nanoparticles for CT imaging applications Hui Liu, Han Wang, Yanhong Xu, Jinglong Zhao, Mingwu Shen, Guixiang Zhang, Xiangyang Shi .
<input type="checkbox"/>	2:20 pm	839	Functionalized gold nanoclusters as site-specific labels for imaging of enteroviruses Kirsi Salorinne , Hannu Hakkinen.
<input type="checkbox"/>	2:40 pm	840	Renal clearable luminescent gold nanoparticles with molecular pharmacokinetics Chen Zhou , Guiyang Hao, Patrick Thomas, Jinbin Liu, Mengxiao Yu, Shasha Sun, Orhan K Oz, Xiankai Sun, Jie Zheng.
<input type="checkbox"/>	3:00 pm	841	Thiolate-protected Au₃₈(SR)₂₄ nanocluster: Size focusing synthesis, structure determination, intrinsic chirality, and beyond Huifeng Qian
<input type="checkbox"/>	3:20 pm	842	Electrochemical and optical characterization of highly monodisperse gold nanoclusters protected with hexanethiolate Kyuju Kwak , KyungLim Pyo, EunSol Ko, Dongil Lee.
<input type="checkbox"/>	3:40 pm	843	Entropy-driven pattern formation of hybrid vesicular assemblies of binary molecular and nanoparticle amphiphiles Yijing Liu , Yanchun Li, Jie He, Kaleb Duelle, Zhongyuan Lu, Zhihong Nie.
<input type="checkbox"/>	4:00 pm	844	Finite-size effects on gold and platinum clusters Lin Li , Ask H Larsen, Nichols A. Romero, Frank Abild-Pedersen, Jeffrey P Greeley, Jens K Nørskov.
<input type="checkbox"/>	4:20 pm	845	Assembly of nanoions via electrostatic interactions: Ion-like behavior of charged noble metal nanoclusters Qiaofeng Yao , Zhentao Luo, Xun Yuan, Yue Yu, Chao Zhang, Jianping Xie, Jim Yang Lee.
<input type="checkbox"/>	4:40 pm	846	Regulating membrane adsorption of luminescent gold nanoparticles through pH Mengxiao Yu , Chen Zhou, Jinbin Liu, Julia D. Hankins, Jie Zheng.
<input type="checkbox"/>	5:00 pm	847	Electrochemical properties of gold nanomolecules Vijay Reddy Jupally , Amala Dass Antonysamy.
<input type="checkbox"/>	5:20 pm	848	Green-gold Au₃₀(S-t-C₄H₉)₁₈ molecules: Mass spectrometry, optical, and structural studies Dave W. Crasto