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Faculty Research Profile: Jingyi Chen

Lutishoor Salisbury *University of Arkansas, Fayetteville*, lsalisbu@uark.edu

Yang Tian University of Arkansas, Fayetteville

Jeremy Smith University of Arkansas, Fayetteville

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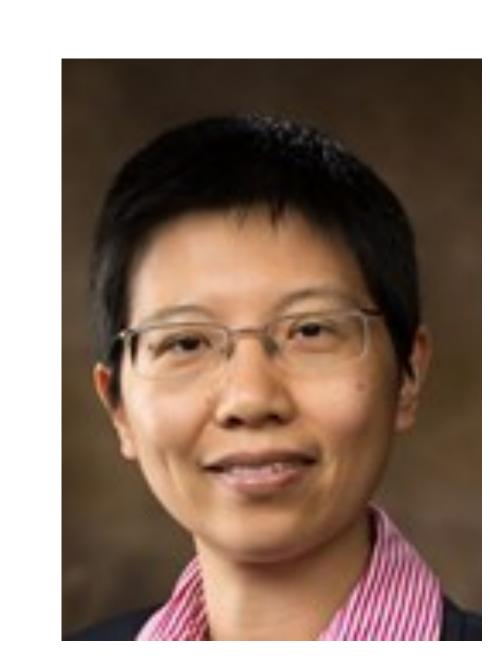
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Congratulations to Jingyi Chen, CHBC Faculty, on Promotion to Full Professor: Research Profile Snapshot

Full Professor Jingyi Chen



Emphases

Nanomaterials Synthesis
 Theranostic
 Nanosensing

Surface Engineering

Research Interests

Development of novel multi-metal nanostructures and new methods for functionalizing their surface with soft and hard materials, with an ultimate goal to establish the structure-property relationship and further explore their applications in energy conversion, tribology, and nanomedi-

Education/Training/Enployment

B.Sc. Chemistry (1997) - Sun Yat-sen University, Guangzhou, China M.A. Chemistry (2002) - State University College at Buffalo, NY Ph.D. Chemistry & Nanotechnology (2006)- University of Washington,

Research Associate (2006-2008) - Brookhaven National Laboratory,

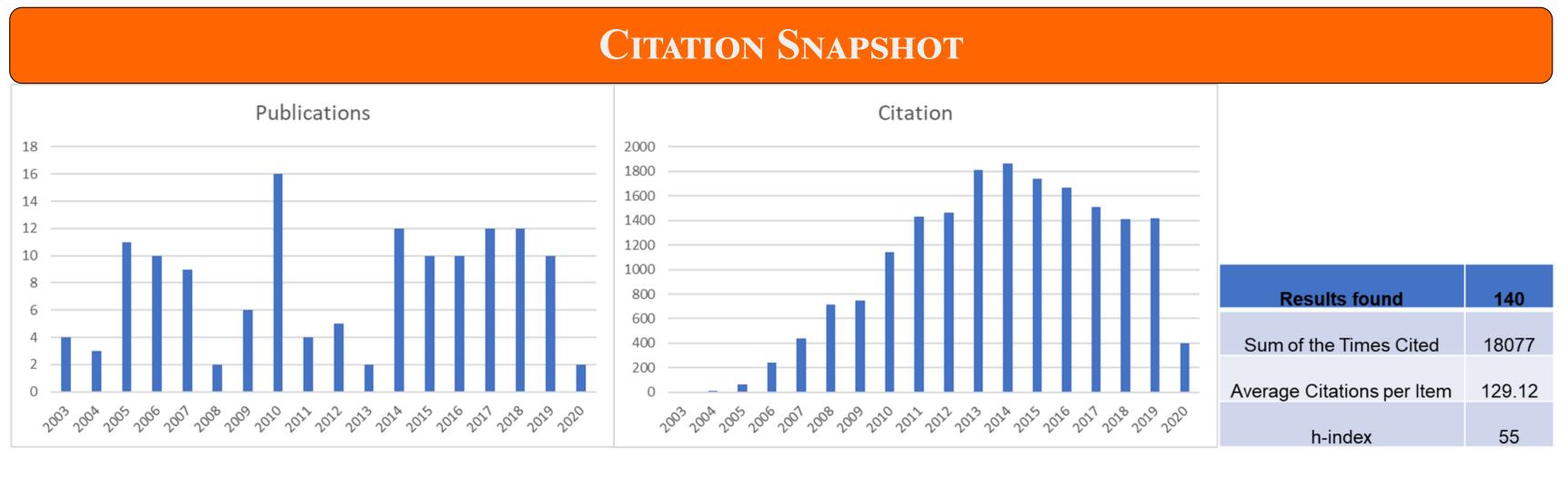
Assistant Professor (2008-2016) - University of Arkansas,

Associate Professor (2016-2020) - University of Arkansas,

Named Arkansas Research Alliance Fellow 2015-18 Named Top 1% Highly Cited Researchers by Thomson Reuters Fulbright College of Arts and Sciences Master Researcher Award, University of Arkans Established Investigator of the Year Runner-Up, Arkansas Bioscience Institute Established Investigator of the Year Runner-Up Women's Giving Circle Award, University of Arkansas Robert C. and Sandra Connor Endowed Faculty Fellowship, University of Arkansas Ralph E. Powe Junior Faculty Enhancement Award Chinese Government Award for Outstanding Self-financed Student Abroad Best Poster Award at the 2005 MRS Spring Meeting, San Francisco, CA		Awards
Nanotechnology Fellowship, University of Washington Nanotechnology Fellowship, University of Washington	2018 2015- 2017 2016 2016 2014 2012 2011 2005 2005 2004	Materials McElvain Seminar, Department of Chemistry, University of Wisconsin-Madison Named Arkansas Research Alliance Fellow 18 Named Top 1% Highly Cited Researchers by Thomson Reuters Fulbright College of Arts and Sciences Master Researcher Award, University of Arkansas Established Investigator of the Year Runner-Up, Arkansas Bioscience Institute Established Investigator of the Year Runner-Up Women's Giving Circle Award, University of Arkansas Robert C. and Sandra Connor Endowed Faculty Fellowship, University of Arkansas Ralph E. Powe Junior Faculty Enhancement Award Chinese Government Award for Outstanding Self-financed Student Abroad Best Poster Award at the 2005 MRS Spring Meeting, San Francisco, CA Nanotechnology Fellowship, University of Washington

PUBLICATIONS —TOP TEN JOURNAL TITLES						
Source Titles	records	% of 117				
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY	10	8.547009				
JOURNAL OF PHYSICAL CHEMISTRY C	9	7.692308				
NANO LETTERS	7	5.982906				
ANGEWANDTE CHEMIE INTERNATIONAL EDITION	5	4.273504				
LANGMUIR	4	3.418803				
NANOSCALE	4	3.418803				
SMALL	4	3.418803				
ACS NANO	3	2.564103				
ADVANCED MATERIALS	3	2.564103				
APPLIED PHYSICS LETTERS	3	2.564103				

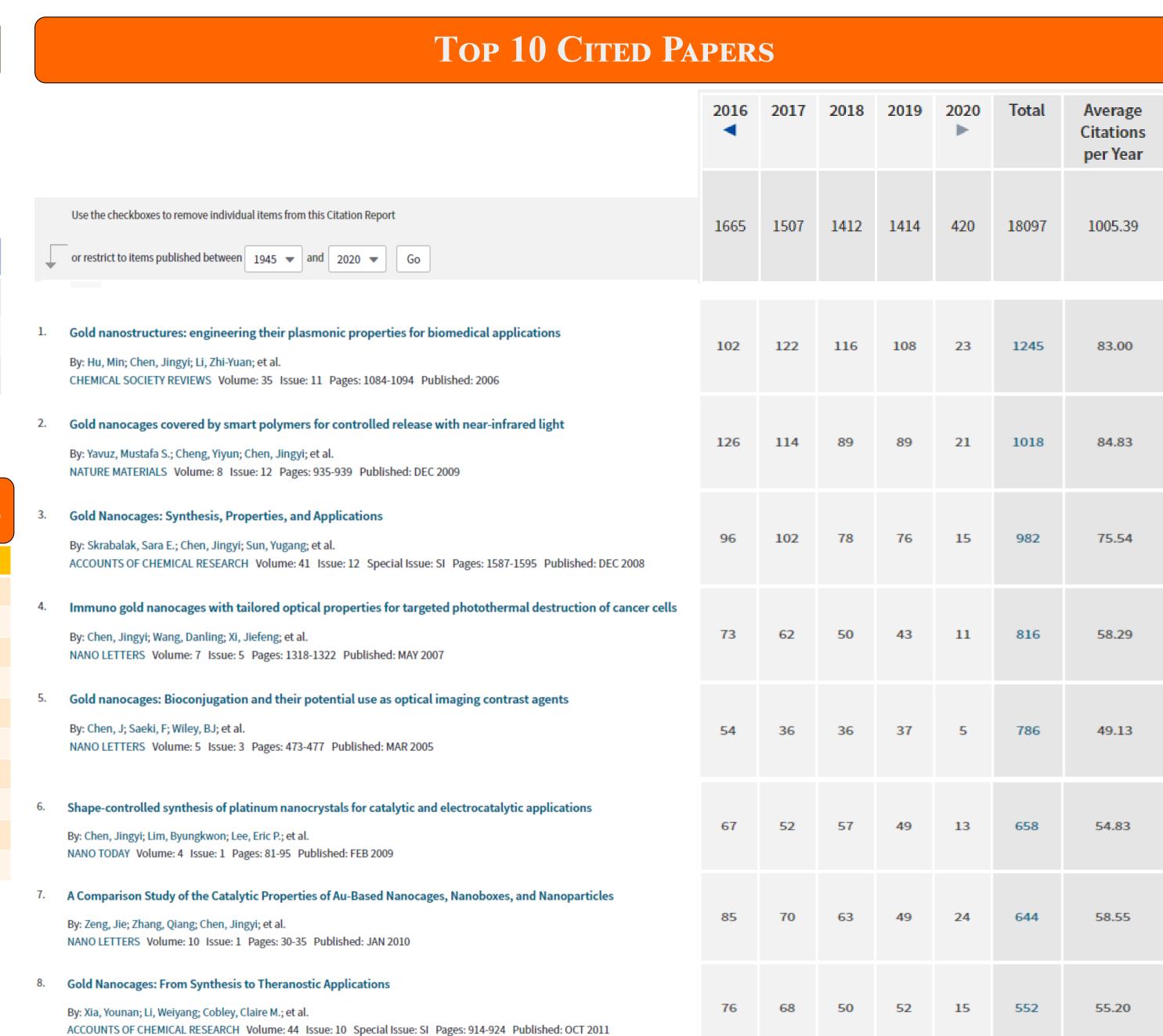
TOP TEN CO-AUTHORS						
Field: Authors	Record Count	% of 122	Bar Chart			
XIA YN	55	45.082 %				
LI ZY	15	12.295 %				
JENKINS SV	12	9.836 %				
ZHU YM	12	9.836 %				
AU L	11	9.016 %	•			
COBLEY CM	11	9.016 %	•			
TAO J	10	8.197 %	•			
JENKINS S	9	7.377 %				
CHEN ST	8	6.557 %				
LI XD	8	6.557 %				



UBLICATIO	NS TYPES OF	DOCUMENTS	Publications	-Top Ten Su	BJECT ARE
Document Types	records	% of 117	Web of Science Categories	records	% of 140
ARTICLE	97	85.84071	CHEMISTRY MULTIDISCIPLINARY	79	56.429
REVIEW	9	7.964602	MATERIALS SCIENCE MULTIDISCIPLINARY	45	32.143
	4		CHEMISTRY PHYSICAL	42	30
OCEEDINGS PAPER		3.539823	NANOSCIENCE NANOTECHNOLOGY	40	28.571
ITORIAL MATERIAL	2	1.769912	PHYSICS APPLIED	29	20.714
LETTER	1	0.884956	PHYSICS CONDENSED MATTER	16	11.429
			ENGINEERING MECHANICAL	5	3.571
			OPTICS	4	2.857
			BIOCHEMISTRY MOLECULAR BIOLOGY	3	2.143
			BIOTECHNOLOGY APPLIED MICROBIOLOGY	3	2.143

Publiations - Top Journals and Impact (from ISI Journal Citation Reports)							
JOURNAL TITLE	RECORDS	CATEGORY NAME	RANK / TOTAL JOURNALS In Category	QUARTILE In Category			
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY	10	CHEMISTRY, MULTIDISCIPLINARY	10/163	Q1			
JOURNAL OF PHYSICAL CHEMISTRY C	9	PHYSICAL CHEMISTRY	30/144	Q1			
NANO LETTERS	7	CHEMISTRY, MULTIDISCIPLINARY	7/163	Q1			
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	5	CHEMISTRY, MULTIDISCIPLINARY	11/163	Q1			
SMALL	4	CHEMISTRY, MULTIDISCIPLINARY	8/163	Q1			

COUNTRIES OF CITING AUTHORS



9. Kinetically controlled synthesis of triangular and hexagonal nanoplates of palladium and their SPR/SERS properties

JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Volume: 127 Issue: 48 Pages: 17118-17127 Published: DEC 7 2005

10. Gold nanostructures: a class of multifunctional materials for biomedical applications

CHEMICAL SOCIETY REVIEWS Volume: 40 Issue: 1 Pages: 44-56 Published: 2011

By: Xiong, YJ; McLellan, JM; Chen, JY; et al.

By: Cobley, Claire M.; Chen, Jingyi; Cho, Eun Chul; et al.

Most Recent Publication Silver Ions Caused Faster Diffusive Dynamics of Histone-Like Nucleoid-Structuring Proteins in Live Bacteria Asmaa A. Sadoon, a,b,f Prabhat Khadka, a Jack Freeland, a,c Ravi Kumar Gundampati, Ryan H. Manso, Mason Ruiz, a,d Venkata R. Krishnamurthi,^a Suresh Kumar Thallapuranam,^c Jingyi Chen,^{b,c} Yong Wang^{a,b,e}

^aDepartment of Physics, University of Arkansas, Fayetteville, Arkansas, USA bMicroelectronics-Photonics Graduate Program, University of Arkansas, Fayetteville, Arkansas, USA ^cDepartment of Chemistry and Biochemistry, University of Arkansas, Fayetteville, Arkansas, USA dDepartment of Biological Sciences, University of Arkansas, Fayetteville, Arkansas, USA eCell and Molecular Biology Program, University of Arkansas, Fayetteville, Arkansas, USA

TOP-CITED PAPER (1244 TIMES)

Gold nanostructures: engineering their plasmonic properties for biomedical applications

Received 6th July 2006

The surface plasmon resonance peaks of gold nanostructures can be tuned from the visible to the review we highlight this concept by comparing four typical examples: nanospheres, nanorods,

First published as an Advance Article on the web 6th September 2006

Department of Physics, University of Thi Qar, Thi Qar, Iraq

makes gold nanostructures well suited for various biomedical applications.

BOOK CHAPTERS

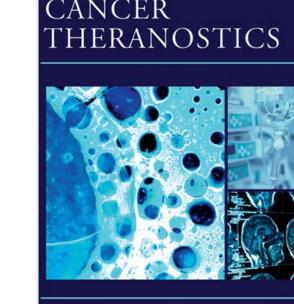
1. Chen, J.;* Wang, T.; Meeker, D.; Smeltzer, M. Polymer Coated Gold Nanostructures for Controlled Release Drug Delivery. In Nanoscale Soft Materials in Nano/Bio Medicine, World Scientific, 2020, https://doi.org/10.1142/11763-vol4.

2. Chen, J.; * Wang, T.; 3 Meeker, D.; Smeltzer, M. Polymer Coated Gold Nanostructures for Controlled Release Drug Delivery. In Nanoscale Soft Materials in Nano/Bio Medicine, World Scientific, 2018; in press.

2. Chen, J.* Noble Metal Nanoparticle Platform. In Cancer Theranostics, Chen, X.; Wong S., Eds. Academic Press, 2014; pp327-346.

3. Jenkins, S.V.; 2 Muldoon, T.J.; Chen, J.* Plasmonic Nanostructures for Biomedical and Sensing Applications. In Metallic Nanostructures: From Controlled Synthesis to Applications, Xiong, X.; Lu. X., Eds. Springer, 2014; pp133-175.

4. Au, L.; Chen, J.; Wang, L. V.; Xia, Y.* Gold Nanocages for Cancer Imaging and Therapy. In Methods in molecular biology (Clifton, N.J.) 2010, 624, pp83-99.



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Yujie Xiong · Xianmao Lu *Editors*

Nanostructures From Controlled Synthesis to Applications	in Molecular Biology
<a>	‱ Humana Press



		Iouwnol			_	OURNALS AND RANKING		Journal		# of	Imna
Source Title	Category	Journal Ranking	Quartile	# of Occurrence	Impact Factor	Source Title	Category	Ranking	Quartile	Occurrence	Impa Fact
	Biotechnology & Applied Microbiology	1/161	Q1	_		Nature Chemistry	Chemistry, Multidisciplinary	3/163	Q1	1	27.89
Nature Reviews Drug Discov	ery			2	47.120	Progress in Polymer Science	Polymer Science	1/85	Q1	2	27.18
	Pharmacology & Pharmacy Chamistry, Physical	1/255	Q1			Lancet Oncology	Oncology	3/213	Q1	1	26.5
	Chemistry, Physical	1/144	Q1				Chemistry, Multidisciplinary	4/163	Q1		
Nature Materials	Materials Science, Multidisciplinary	1/271	Q1	12	38.891	Energy & Environmental Science	Energy & Fuels	1/88	Q1	11	25.42
	Physics, Applied	1/145	Q1				Engineering, Chemical	1/135	Q1	11 2	2011
-	Physics, Condensed Matter	1/67	Q1	_			Environmental Sciences	1/225	Q1		
Nature	Multidisciplinary Sciences	1/63	Q1	2	38.138	Nature Methods	Biochemical Research Methods	1/77	Q1	2	25.32
Chemical reviews	Chemistry, Multidisciplinary Nanoscience & Nanotechnology	1/163 1/83	Q1 Q1	48	37.369	Materials Science & Engineering R-Reports	Materials Science, Multidisciplinary	4/271	Q1	6	24.65
Nature Nanotechnology					35.267	Waterials Science & Engineering it Reports	Physics, Applied	3/145	Q1	U	47. 0
& √	Materials Science, Multidisciplinary	2/271	Q2			Accounts of Chemical Research	Chemistry, Multidisciplinary	5/163	Q1	28	22.0
Science	Multidisciplinary Sciences	2/63	Q1	7	34.661		Chemistry, Multidisciplinary	6/163	Q1		
Chemical Society Reviews	Chemistry, Multidisciplinary	2/163	Q1	66	34.090		Chemistry, Physical	2/144	Q1		
	Optics	1/90	Q1			Advanced Materials	Nanoscience & Nanotechnology	2/83	Q1	150 18	
Nature Photonics	Physics, Applied	2/145	Q1	4	31.167		Materials Science, Multidisciplinary	5/271	Q1		18.96
Progress in Materials Science	e Materials Science, Multidisciplinary	3/271	Q1	1	31.083		Physics, Applied	4/145	Q1		
							Physics, Condensed Matter	2/67	Q1		
	Wob of Coiomací					Materials Today	Materials Science, Multidisciplinary	6/271	Q1	6	17.79
Th	Web of Science					Physics Reports-Review Section of Physics Letters	Physics, Multidisciplinary	3/79	Q1	1	16.24
	ese citation analyses were performed using ence database. This database is accessible					Advanced Drug Delivery Reviews	Pharmacology & Pharmacy	3/255	Q1	24	15.6
	-campus.	ie on and					Chemistry, Physical	3/144	Q1		
	-campus.						Energy & Fuels	3/88	Q1		
		nough this database covers a wide range of publica-				Advanced Energy Materials	Materials Science, Multidisciplinary	7/271	Q1	2	15.23
	is for each faculty member, it does not coin articles. Other databases that cover the						Physics, Applied	5/145	Q1		
their articles. Other databases that cover their publications significantly are: PubMod and SciFinder		_	-				Physics, Condensed Matter	5/67	Q1		
tioi	s significantly are: PubMed and SciFinder.		Compile	ed by Luti Salisb	ury, Yang Ti	an and Jeremy Smith, July 2020	, , , , , , , , , , , , , , , , , , , ,		(-		

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Country	# of Occurrence	Country	# o Occur
PEOPLES R CHINA	5145	CHILE	24
USA	3262	NEW ZEALAND	22
SOUTH KOREA	840	HUNGARY	18
INDIA	763	WALES	16
JAPAN	514	IRAQ	13
GERMANY	398	BULGARIA	12
TAIWAN	369	JORDAN	12
CANADA	329	LEBANON	12
SINGAPORE	325		
FRANCE	322	U ARAB EMIR-	12
SPAIN	321	QATAR	11
ITALY	292	SLOVENIA	11
AUSTRALIA	275	BELARUS	10
ENGLAND	272	NORWAY	10
IRAN	240	COLOMBIA	9
RUSSIA	157	CYPRUS	9
SAUDI ARABIA	137	INDONESIA	9
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MEXICO	85	SERBIA	9
SWITZERLAND	77	SLOVAKIA	9
NETHERLANDS	73	NIGERIA	8
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PAKISTAN	70	TUNISIA	8
POLAND	70	BANGLADESH	6
EGYPT	67	CROATIA	6
ISRAEL	66	KAZAKHSTAN	6
MALAYSIA	64	MOROCCO	6
SWEDEN	64	ECUADOR	5
IRELAND	63	KUWAIT	5
BELGIUM	60	LITHUANIA	4
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SOUTH AFRICA	37	LUXEMBOURG	3
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CZECH REPUBLIC	35	OMAN	3
DENMARK	32	PHILIPPINES	3
VIETNAM	32	SRI LANKA	3
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SCOTLAND	30	ALGERIA	2
ARGENTINA	29		2
THAILAND	29	BAHRAIN	
UKRAINE	28	CUBA	2
		SENEGAL	2

Top Citi	NG INSTITUT	TIONS/ORGANIZATIONS	
Institution/Organization - USA	# of Occurrence	Institution/Organization - Peoples R. of China	# of Occurrence
Georgia Institute of Technology	284	Chinese Academy of Sciences	955
Washington University in St. Louis	209	Xiamen University	256
Rice University	151	University of Science and Technology of China	255
Northwestern University	142	Soochow University	168
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University of Pittsburgh	41	Institution/Organization - Other Countries	Occurrence
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Laboratories in USA	# of Occurrence	Korea Advanced Institute of Science and Technology, South Korea	115
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Savannah River National Laboratory	4		
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US Army Research Laboratory	2	National Center for Scientific Research, France	51
Lawrence Berkeley National Laboratory	1	Osaka University, Japan	50

