



Charles M. Lieber

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Chemistry and Chemical Biology

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Area: nanoscience

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Parents

Sign in to add mentor

Nathan Saul Lewis	grad student	1985	Stanford
(Kinetic and catalytic studies at chemically modified electrodes)			
Harry Barkus Gray	post-doc	1985-1987	Caltech

Children

Sign in to add trainee

Stanislaus S. Wong	grad student		Harvard
Hongjie Dai	grad student	1994	Harvard
Jie Liu	grad student	1996	Harvard
Peidong Yang	grad student	1997	Harvard
Philip Kim	grad student	1999	Harvard (Physics Tree)
Latha Venkataraman	grad student	1999	Harvard
Ji t H	d t d t	2000	H d

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Jiangtao Hu	grad student	2000	Harvard
Liwei Chen	grad student	2001	Harvard

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Yi Cui	grad student	1998-2002	Harvard
Paul D. Ashby	grad student	2003	Harvard
Mark S. Gudiksen	grad student	2003	Harvard
Yu Huang	grad student	2003	Harvard
Wayne U. Wang	grad student	2004	Harvard
Zhaohui Zhong	grad student	2005	Harvard
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Andrew B. Greytak	grad student	2006	Harvard
Michael C. McAlpine	grad student	2006	Harvard
Chen Yang	grad student	2006	Harvard
Carl J. Barrelet	grad student	2007	Harvard
Jie Xiang	grad student	2007	Harvard
Gengfeng Zheng	grad student	2007	Harvard
Fang Qian	grad student	2008	Harvard
Ping Xie	grad student	2008	Harvard
Brian P. Timko	grad student	2009	Harvard
Guihua Yu	grad student	2009	Harvard
Yajie Dong	grad student	2010	Harvard
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Bozhong Chen	grad student	2010	Harvard	Tree	Recent Additions	Distance	Analysis	Help	Donate	Sign In/Register
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Xiaocheng Jiang	grad student	2011	Harvard							
Thomas J. Kempa	grad student	2012	Harvard							
Xiaochuan Dai	grad student	2010-2015	Harvard							
Jae-Hyun Lee	post-doc		Harvard							
C. Daniel Frisbie	post-doc	1993-1994	Harvard							
Ernesto Joselevich	post-doc	1998-2000	Harvard							
Adam Thomas Woolley	post-doc	1998-2000	Harvard							
Jason H. Hafner	post-doc	1998-2001	Harvard							
Song Jin	post-doc	2002-2004	Harvard							
Wei D Lu	post-doc	2003-2005	(Physics Tree)							
Silvija Gradečak	post-doc	2004-2006	Harvard							
Yat Li	post-doc	2003-2007	Harvard							
Xuan Gao	post-doc	2005-2007	Harvard (Physics Tree)							
Qihua Xiong	post-doc	2006-2009	Harvard							
James F. Cahoon	post-doc	2009-2011	Harvard							
Quan Qing	post-doc	2006-2012	Harvard							
Xiaojie Duan	post-doc	2007-2013	Harvard							
Wooyoung Shim	post-doc	2012-2014	Harvard							
Xiaochuan Dai	post-doc	2015-2018	Harvard							
Liqiang Mai	research scientist	2008-2011	Harvard							

Collaborators

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Anyuan Cao collaborator (Physics Tree)



Publications

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Sistani M, Delaforce J, Kramer RBG, et al. **(2019)** Highly Transparent Contacts to the 1D Hole Gas in Ultrascaled Ge/Si Core/Shell Nanowires. *Acs Nano*

Tran NM, Shekhar K, Whitney IE, et al. **(2019)** Single-Cell Profiles of Retinal Ganglion Cells Differing in Resilience to Injury Reveal Neuroprotective Genes. *Neuron*

Lee JM, Hong G, Lin D, et al. **(2019)** Nano-enabled direct contact interfacing of syringe-injectable mesh electronics. *Nano Letters*

Zhao Y, You SS, Zhang A, et al. **(2019)** Scalable ultrasmall three-dimensional nanowire transistor probes for intracellular recording. *Nature Nanotechnology*

Viveros R, Zhou T, Hong G, et al. **(2019)** Advanced One- and Two-Dimensional Mesh Designs for Injectable Electronics. *Nano Letters*

Tian B, Lieber CM. **(2019)** Nanowired Bioelectric Interfaces. *Chemical Reviews*

Hong G, Lieber CM. **(2019)** Author Correction: Novel electrode technologies for neural recordings. *Nature Reviews. Neuroscience*

Hong G, Lieber CM. **(2019)** Novel electrode technologies for neural recordings. *Nature Reviews. Neuroscience*

Yang X, Zhou T, Zwang TJ, et al. **(2019)** Bioinspired neuron-like electronics. *Nature Materials*

Wang R, Deacon RS, Sun J, et al. **(2019)** Gate tunable hole charge qubit formed in a Ge/Si nanowire double quantum dot coupled to microwave photons. *Nano Letters*

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Year	Citation	Score	
2019	Sistani M, Delaforce J, Kramer RBG, Roch N, Luong MA, den Hertog MI, Robin E, Smoliner J, Yao J , Lieber CM , Naud C, Lugstein A, Buisson O. Highly Transparent Contacts to the 1D Hole Gas in Ultrascaled Ge/Si Core/Shell Nanowires. <i>Acs Nano</i> . PMID 31816231 DOI: 10.1021/acsnano.9b06809	1	
2019	Tran NM, Shekhar K, Whitney IE , Jacobi A, Benhar I, Hong G, Yan W, Adiconis X, Arnold ME, Lee JM , Levin JZ, Lin D , Wang C , Lieber CM , Regev A, et al. Single-Cell Profiles of Retinal Ganglion Cells Differing in Resilience to Injury Reveal Neuroprotective Genes. <i>Neuron</i> . PMID 31784286 DOI: 10.1016/j.neuron.2019.11.006	0.96	
2019	Lee JM, Hong G, Lin D , Schuhmann TG, Sullivan AT, Viveros R, Park HG, Lieber CM . Nano-enabled direct contact interfacing of syringe-injectable mesh electronics. <i>Nano Letters</i> . PMID 31361503 DOI: 10.1021/acs.nanolett.9b03019	1	
2019	Zhao Y, You SS, Zhang A, Lee JH , Huang J, Lieber CM . Scalable ultrasmall three-dimensional nanowire transistor probes for intracellular recording. <i>Nature Nanotechnology</i> . PMID 31263191 DOI: 10.1038/s41565-019-0478-y	0.96	
2019	Viveros R, Zhou T , Hong G, Fu TM, Lin HG, Lieber CM . Advanced One- and Two-Dimensional Mesh Designs for Injectable Electronics. <i>Nano Letters</i> .	0.96	

	PMID 31075202 DOI: 10.1021/acs.nanolett.9b01727		
2019	Tian B , Lieber CM . Nanowired Bioelectric Interfaces. <i>Chemical Reviews</i> . PMID 30995019 DOI: 10.1021/acs.chemrev.8b00795	1	
2019	Hong G, Lieber CM . Author Correction: Novel electrode technologies for neural recordings. <i>Nature Reviews. Neuroscience</i> . PMID 30992558 DOI: 10.1038/s41583-019-0169-6	0.96	
2019	Hong G, Lieber CM . Novel electrode technologies for neural recordings. <i>Nature Reviews. Neuroscience</i> . PMID 30833706 DOI: 10.1038/s41583-019-0140-6	0.96	
2019	Yang X , Zhou T , Zwang TJ, Hong G, Zhao Y, Viveros RD, Fu TM , Gao T, Lieber CM . Bioinspired neuron-like electronics. <i>Nature Materials</i> . PMID 30804509 DOI: 10.1038/s41563-019-0292-9	0.96	
2019	Wang R , Deacon RS, Sun J, Yao J , Lieber CM , Ishibashi K. Gate tunable hole charge qubit formed in a Ge/Si nanowire double quantum dot coupled to microwave photons. <i>Nano Letters</i> . PMID 30636426 DOI: 10.1021/acs.nanolett.8b04343	1	
2018	Sun J, Deacon R, Wang R , Yao J , Lieber CM , Ishibashi K. Helical Hole State in Multiple Conduction Modes in Ge/Si Core/Shell Nanowire. <i>Nano Letters</i> . PMID 30226052 DOI: 10.1021/acs.nanolett.8b01799	1	
2018	Schuhmann TG, Zhou T , Hong G, Lee JM, Fu TM, Park HG, Lieber CM . Syringe-injectable Mesh Electronics for Stable Chronic Rodent Electrophysiology. <i>Journal of Visualized Experiments : Jove</i> . PMID 30080192 DOI: 10.3791/58003	1	
2018	Hong G, Fu TM, Qiao M, Viveros RD, Yang X , Zhou T , Lee JM , Park HG, Sanes JR , Lieber CM . A method for single-neuron chronic recording from the retina in awake mice. <i>Science (New York, N.Y.)</i> . 360: 1447-1451. PMID 29954976 DOI: 10.1126/science.aas9160	1	
2018	Anikeeva P, Lieber CM , Cheon J . Creating Functional Interfaces with Biological Circuits. <i>Accounts of Chemical Research</i> . 51: 987. PMID 29758988 DOI: 10.1021/acs.accounts.8b00167	0.6	

2018	Hong G, Viveros RD, Zwang TJ, Yang X, Lieber CM . Tissue-like neural probes for understanding and modulating the brain. <i>Biochemistry</i> . PMID 29529359 DOI: 10.1021/acs.biochem.8b00122	0.96	
2018	Dai X , Hong G, Gao T, Lieber CM . Mesh Nanoelectronics: Seamless Integration of Electronics with Tissues. <i>Accounts of Chemical Research</i> . PMID 29381054 DOI: 10.1021/acs.accounts.7b00547	1	
2017	Hong G, Yang X, Zhou T , Lieber CM . Mesh electronics: a new paradigm for tissue-like brain probes. <i>Current Opinion in Neurobiology</i> . 50: 33-41. PMID 29202327 DOI: 10.1016/j.conb.2017.11.007	0.96	
2017	Fu TM, Hong G, Viveros RD, Zhou T , Lieber CM . Highly scalable multichannel mesh electronics for stable chronic brain electrophysiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> . PMID 29109247 DOI: 10.1073/pnas.1717695114	0.96	
2017	Schuhmann TG, Yao J , Hong G, Fu TM, Lieber CM . Syringe-Injectable Electronics with a Plug-and-Play Input/Output Interface. <i>Nano Letters</i> . PMID 28787578 DOI: 10.1021/acs.nanolett.7b03081	1	
2017	Ozel T, Zhang B, Gao R, Day RW, Lieber CM , Nocera DG . Electrochemical Deposition of Conformal and Functional Layers on High Aspect Ratio Silicon Micro/Nanowires. <i>Nano Letters</i> . PMID 28621537 DOI: 10.1021/acs.nanolett.7b01950	0.92	
2017	Sheehan PE, Lieber CM . Friction between van der Waals solids during lattice directed sliding. <i>Nano Letters</i> . PMID 28570072 DOI: 10.1021/acs.nanolett.7b00871	0.36	
2017	Zhou T, Hong G, Fu TM, Yang X, Schuhmann TG, Viveros RD, Lieber CM . Syringe-injectable mesh electronics integrate seamlessly with minimal chronic immune response in the brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> . PMID 28533392 DOI: 10.1073/pnas.1705509114	0.96	
2016	Gao N, Gao T, Yang X , Dai X , Zhou W , Zhang A, Lieber CM . Specific detection of biomolecules in physiological solutions using graphene transistor biosensors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> .	1	

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2016	Zhou W, Dai X , Lieber CM . Advances in nanowire bioelectronics. <i>Reports On Progress in Physics. Physical Society (Great Britain)</i> . 80: 016701. PMID 27823988 DOI: 10.1088/0034-4885/80/1/016701	1	
2016	Fu TM, Hong G, Zhou T, Schuhmann TG, Viveros RD, Lieber CM . Stable long-term chronic brain mapping at the single-neuron level. <i>Nature Methods</i> . PMID 27571550 DOI: 10.1038/nmeth.3969	1	
2016	Dai X , Zhou W , Gao T, Liu J , Lieber CM . Three-dimensional mapping and regulation of action potential propagation in nanoelectronics-innervated tissues. <i>Nature Nanotechnology</i> . PMID 27347837 DOI: 10.1038/nnano.2016.96	1	
2016	No YS, Gao R, Mankin MN, Day RW, Park HG, Lieber CM . Encoding Active Device Elements at Nanowire Tips. <i>Nano Letters</i> . PMID 27337041 DOI: 10.1021/acs.nanolett.6b02236	1	
2016	Zhao Y , Yao J , Xu L, Mankin MN, Zhu Y , Wu HA, Mai L , Zhang Q , Lieber CM . Shape-controlled deterministic assembly of nanowires. <i>Nano Letters</i> . PMID 26999059 DOI: 10.1021/acs.nanolett.6b00292	1	
2016	Day RW, Mankin MN, Lieber CM . Plateau-Rayleigh crystal growth of nanowire heterostructures: Strain-modified surface chemistry and morphological control in 1, 2 and 3 dimensions. <i>Nano Letters</i> . PMID 26929996 DOI: 10.1021/acs.nanolett.6b00629	1	
2016	Lee JH , Zhang A, You S , Lieber CM . Spontaneous internalization of cell penetrating peptide-modified nanowires into primary neurons. <i>Nano Letters</i> . PMID 26745653 DOI: 10.1021/acs.nanolett.6b00020	1	
2015	Alivisatos AP , Lieber CM . Nano Letters Editorial Processing Changes. <i>Nano Letters</i> . PMID 26713459 DOI: 10.1021/acs.nanolett.5b05063	1	
2015	Zhang A, Lieber CM . Nano-Bioelectronics. <i>Chemical Reviews</i> . PMID 26691648 DOI: 10.1021/acs.chemrev.5b00608	1	

2015	Xie C , Liu J, Fu TM, Dai X , Zhou W, Lieber CM . Three-dimensional macroporous nanoelectronic networks as minimally invasive brain probes. <i>Nature Materials</i> . PMID 26436341 DOI: 10.1038/nmat4427	1	
2015	Hong G , Fu TM, Zhou T, Schuhmann TG, Huang J, Lieber CM . Syringe Injectable Electronics: Precise Targeted Delivery with Quantitative Input/Output Connectivity. <i>Nano Letters</i> . PMID 26317328 DOI: 10.1021/acs.nanolett.5b02987	1	
2015	Alivisatos AP , Lieber CM , Tierney HL , Weiss PS . ACS Nano and Nano Letters, Partners in Leading Nanoscience and Nanotechnology. <i>Nano Letters</i> . 15: 4845. PMID 26265315 DOI: 10.1021/acs.nanolett.5b02526	1	
2015	Mankin MN, Day RW, Gao R, No YS, Kim SK, McClelland AA, Bell DC, Park HG , Lieber CM . Facet-Selective Epitaxy of Compound Semiconductors on Faceted Silicon Nanowires. <i>Nano Letters</i> . 15: 4776-82. PMID 26057208 DOI: 10.1021/acs.nanolett.5b01721	1	
2015	Liu J, Fu TM, Cheng Z, Hong G , Zhou T, Jin L , Duvvuri M, Jiang Z , Kruskal P, Xie C, Suo Z , Fang Y, Lieber CM . Syringe-injectable electronics. <i>Nature Nanotechnology</i> . PMID 26053995 DOI: 10.1038/nnano.2015.115	0.76	
2015	Kruskal PB, Jiang Z, Gao T , Lieber CM . Beyond the patch clamp: nanotechnologies for intracellular recording. <i>Neuron</i> . 86: 21-4. PMID 25856481 DOI: 10.1016/j.neuron.2015.01.004	1	
2015	Day RW, Mankin MN, Gao R, No YS, Kim SK, Bell DC, Park HG , Lieber CM . Plateau-Rayleigh crystal growth of periodic shells on one-dimensional substrates. <i>Nature Nanotechnology</i> . 10: 345-52. PMID 25751303 DOI: 10.1038/nnano.2015.23	0.72	
2015	Kempa TJ , Bediako DK, Jones EC, Lieber CM , Nocera DG . Facile, rapid, and large-area periodic patterning of semiconductor substrates with submicron inorganic structures. <i>Journal of the American Chemical Society</i> . 137: 3739-42. PMID 25741869 DOI: 10.1021/ja5118717	1	
2015	Gao N, Zhou W, Jiang X , Hong G , Fu TM, Lieber CM . General strategy for biodetection in high ionic strength solutions using transistor-based nanoelectronic sensors. <i>Nano Letters</i> . 15: 2143-8. PMID 25664395 DOI: 10.1021/acs.nanolett.5b00133	1	

2015	Alivisatos AP , Lieber CM , Tierney HL , Weiss PS . ACS Nano and Nano Letters, Partners in Leading Nanoscience and Nanotechnology <i>Nano Letters</i> . 15: 4845. DOI: 10.1021/acs.nanolett.5b02526	1	
2015	Duan X, Lieber CM . Nanoscience and the nano-bioelectronics frontier <i>Nano Research</i> . DOI: 10.1007/s12274-014-0692-8	1	
2015	Chen L, Lu W, Lieber CM . Semiconductor nanowire growth and integration <i>Rsc Smart Materials</i> . 2015: 1-53.	1	
2014	Jiang X , Hu J, Lieber AM, Jackan CS, Biffinger JC , Fitzgerald LA , Ringeisen BR , Lieber CM . Nanoparticle facilitated extracellular electron transfer in microbial fuel cells. <i>Nano Letters</i> . 14: 6737-42. PMID 25310721 DOI: 10.1021/nl503668q	1	
2014	Zhang Q, Li G, Liu X , Qian F , Li Y , Sum TC, Lieber CM , Xiong Q . A room temperature low-threshold ultraviolet plasmonic nanolaser. <i>Nature Communications</i> . 5: 4953. PMID 25247634 DOI: 10.1038/ncomms5953	1	
2014	Shim W , Yao J, Lieber CM . Programmable resistive-switch nanowire transistor logic circuits. <i>Nano Letters</i> . 14: 5430-6. PMID 25133781 DOI: 10.1021/nl502654f	1	
2014	Higginbotham AP, Larsen TW, Yao J, Yan H, Lieber CM , Marcus CM , Kuemmeth F. Hole spin coherence in a Ge/Si heterostructure nanowire. <i>Nano Letters</i> . 14: 3582-6. PMID 24797219 DOI: 10.1021/nl501242b	1	
2014	Kim SK, Song KD, Kempa TJ , Day RW, Lieber CM , Park HG. Design of nanowire optical cavities as efficient photon absorbers. <i>Acs Nano</i> . 8: 3707-14. PMID 24617563 DOI: 10.1021/nn5003776	1	
2014	Zhou W, Dai X , Fu TM, Xie C, Liu J, Lieber CM . Long term stability of nanowire nanoelectronics in physiological environments. <i>Nano Letters</i> . 14: 1614-9. PMID 24479700 DOI: 10.1021/nl500070h	1	
2014	Fu TM, Duan X , Jiang Z, Dai X , Xie P , Cheng Z, Lieber CM . Sub-10-nm intracellular bioelectronic probes from nanowire-nanotube heterostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> . 111: 1259-64.	1	

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2014	Yao J, Yan H , Das S, Klemic JF, Ellenbogen JC, Lieber CM . Nanowire nanocomputer as a finite-state machine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> . 111: 2431-5. PMID 24469812 DOI: 10.1073/pnas.1323818111	1	
2014	Lee EJ, Jiang X , Houzet M, Aguado R, Lieber CM , De Franceschi S. Spin-resolved Andreev levels and parity crossings in hybrid superconductor-semiconductor nanostructures. <i>Nature Nanotechnology</i> . 9: 79-84. PMID 24336403 DOI: 10.1038/nnano.2013.267	1	
2014	Qing Q , Jiang Z, Xu L, Gao R, Mai L , Lieber CM . Free-standing kinked nanowire transistor probes for targeted intracellular recording in three dimensions. <i>Nature Nanotechnology</i> . 9: 142-7. PMID 24336402 DOI: 10.1038/nnano.2013.273	1	
2014	Kempa TJ , Lieber CM . Semiconductor nanowire solar cells: Synthetic advances and tunable properties <i>Pure and Applied Chemistry</i> . 86: 13-26. DOI: 10.1515/pac-2014-5010	1	
2014	Higginbotham AP, Kuemmeth F, Larsen TW, Fitzpatrick M, Yao J, Yan H, Lieber CM , Marcus CM . Antilocalization of coulomb blockade in a Ge/Si nanowire <i>Physical Review Letters</i> . 112. DOI: 10.1103/PhysRevLett.112.216806	1	
2013	Kempa TJ , Kim SK, Day RW, Park HG, Nocera DG , Lieber CM . Facet-selective growth on nanowires yields multi-component nanostructures and photonic devices. <i>Journal of the American Chemical Society</i> . 135: 18354-7. PMID 24279423 DOI: 10.1021/ja411050r	1	
2013	Jiang X , Hu J, Petersen ER, Fitzgerald LA , Jackan CS, Lieber AM, Ringeisen BR , Lieber CM , Biffinger JC . Probing single- to multi-cell level charge transport in <i>Geobacter sulfurreducens</i> DL-1. <i>Nature Communications</i> . 4: 2751. PMID 24202068 DOI: 10.1038/ncomms3751	1	
2013	Duan X , Fu TM, Liu J, Lieber CM . Nanoelectronics-biology frontier: From nanoscopic probes for action potential recording in live cells to three-dimensional cyborg tissues. <i>Nano Today</i> . 8: 351-373. PMID 24073014 DOI: 10.1016/j.nantod.2013.05.001	1	
2013	Duan X , Lieber CM . Nanoelectronics meets biology: from new nanoscale devices for live-	1	

	cell recording to 3D innervated tissues. <i>Chemistry, An Asian Journal</i> . 8: 2304-14. PMID 23946279 DOI: 10.1002/asia.201300630		
2013	Yao J, Yan H, Lieber CM . A nanoscale combing technique for the large-scale assembly of highly aligned nanowires. <i>Nature Nanotechnology</i> . 8: 329-35. PMID 23603986 DOI: 10.1038/nnano.2013.55	1	
2013	Liu J, Xie C, Dai X , Jin L , Zhou W, Lieber CM . Multifunctional three-dimensional macroporous nanoelectronic networks for smart materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> . 110: 6694-9. PMID 23569270 DOI: 10.1073/pnas.1305209110	1	
2013	Tian B , Lieber CM . Synthetic nanoelectronic probes for biological cells and tissues. <i>Annual Review of Analytical Chemistry (Palo Alto, Calif.)</i> . 6: 31-51. PMID 23451719 DOI: 10.1146/annurev-anchem-062012-092623	1	
2013	Xu L, Jiang Z, Qing Q , Mai L , Zhang Q, Lieber CM . Design and synthesis of diverse functional kinked nanowire structures for nanoelectronic bioprobes. <i>Nano Letters</i> . 13: 746-51. PMID 23273386 DOI: 10.1021/nl304435z	1	
2013	Cohen-Karni T, Lieber CM . Nanowire nanoelectronics: Building interfaces with tissue and cells at the natural scale of biology <i>Pure and Applied Chemistry</i> . 85: 883-901. DOI: 10.1351/PAC-CON-12-10-19	1	
2013	Kempa TJ , Day RW, Kim SK, Park HG, Lieber CM . Semiconductor nanowires: A platform for exploring limits and concepts for nano-enabled solar cells <i>Energy and Environmental Science</i> . 6: 719-733. DOI: 10.1039/c3ee24182c	1	
2013	Xu L, Jiang Z, Qing Q , Mai L , Zhang Q, Lieber CM . Design and synthesis of kinked nanowire structures for nanoelectronic bioprobes <i>Nanophotonics, Nanoelectronics and Nanosensor, N3 2013</i> . NSu1A.2.	1	
2012	Lee EJ, Jiang X , Aguado R, Katsaros G, Lieber CM , De Franceschi S. Zero-bias anomaly in a nanowire quantum dot coupled to superconductors. <i>Physical Review Letters</i> . 109: 186802. PMID 23215310 DOI: 10.1103/PhysRevLett.109.186802	1	

2012	Tian B , Liu J, Dvir T, Jin L , Tsui JH, Qing Q , Suo Z , Langer R, Kohane DS , Lieber CM . Macroporous nanowire nanoelectronic scaffolds for synthetic tissues. <i>Nature Materials</i> . 11: 986-94. PMID 22922448 DOI: 10.1038/nmat3404	1	
2012	Kim SK, Day RW, Cahoon JF , Kempa TJ , Song KD, Park HG, Lieber CM . Tuning light absorption in core/shell silicon nanowire photovoltaic devices through morphological design. <i>Nano Letters</i> . 12: 4971-6. PMID 22889329 DOI: 10.1021/nl302578z	1	
2012	Gao R, Strehle S, Tian B , Cohen-Karni T, Xie P , Duan X , Qing Q , Lieber CM . Outside looking in: nanotube transistor intracellular sensors. <i>Nano Letters</i> . 12: 3329-33. PMID 22583370 DOI: 10.1021/nl301623p	1	
2012	Cohen-Karni T, Casanova D, Cahoon JF , Qing Q , Bell DC, Lieber CM . Synthetically encoded ultrashort-channel nanowire transistors for fast, pointlike cellular signal detection. <i>Nano Letters</i> . 12: 2639-44. PMID 22468846 DOI: 10.1021/nl3011337	1	
2012	Jiang Z, Qing Q , Xie P , Gao R, Lieber CM . Kinked p-n junction nanowire probes for high spatial resolution sensing and intracellular recording. <i>Nano Letters</i> . 12: 1711-6. PMID 22309132 DOI: 10.1021/nl300256r	1	
2012	Kempa TJ , Cahoon JF , Kim SK, Day RW, Bell DC, Park HG, Lieber CM . Coaxial multishell nanowires with high-quality electronic interfaces and tunable optical cavities for ultrathin photovoltaics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> . 109: 1407-12. PMID 22307592 DOI: 10.1073/pnas.1120415109	1	
2012	Hu Y , Kuemmeth F, Lieber CM , Marcus CM . Hole spin relaxation in Ge-Si core-shell nanowire qubits. <i>Nature Nanotechnology</i> . 7: 47-50. PMID 22179569 DOI: 10.1038/nnano.2011.234	1	
2012	Duan X , Gao R, Xie P , Cohen-Karni T, Qing Q , Choe HS, Tian B , Jiang X , Lieber CM . Intracellular recordings of action potentials by an extracellular nanoscale field-effect transistor. <i>Nature Nanotechnology</i> . 7: 174-9. PMID 22179566 DOI: 10.1038/nnano.2011.223	1	
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