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As at 3 May 2019

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1.

### Mixed Metal Sulfides for Electrochemical Energy Storage and Conversion

By: ... [Lou, XW](#) (Lou, Xiong Wen (David))<sup>[2]</sup>

[ 2 ] [Nanyang Technol Univ](#), Sch Chem & Biomed Engn, 62 Nanyang Dr, Singapore 637459, Singapore

<b>ADVANCED ENERGY MATERIALS</b> Volume: 8 Issue: 3 Article Number: 1701592 DOI: 10.1002/aenm.201701592 Published: JAN 25 2018 Document Type: Review	<b>Times Cited: 90</b> <b>Hot Paper</b> <b>Highly Cited Paper</b>
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2.

### Atomically dispersed Ni(i) as the active site for electrochemical CO2 reduction

By: [Yang, HB](#) (Yang, Hong Bin)<sup>[1,2]</sup>; ... ; [Liu, S](#) (Liu, Song)<sup>[1]</sup>; ... ; [Zhang, LP](#) (Zhang, Liping)<sup>[1]</sup>; [Huang, X](#) (Huang, Xiang)<sup>[1]</sup>; [Wang, HY](#) (Wang, Hsin-Yi)<sup>[1]</sup>; [Cai, WZ](#) (Cai, Weizheng)<sup>[1]</sup>; [Chen, R](#) (Chen, Rong)<sup>[1]</sup>; [Gao, JJ](#) (Gao, Jiajian)<sup>[1]</sup>; ... ; [Liu, B](#) (Liu, Bin)<sup>[1]</sup>

[ 1 ] [Nanyang Technol Univ](#), Sch Chem & Biomed Engn, Singapore, Singapore

<b>NATURE ENERGY</b> Volume: 3 Issue: 2 Pages: 140-147 DOI: 10.1038/s41560-017-0078-8 Published: FEB 2018 Document Type: Article	<b>Times Cited: 81</b> <b>Hot Paper</b> <b>Highly Cited Paper</b>
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3.

### Recent advances in convolutional neural networks

By: [Gu, JX](#) (Gu, Jiuxiang)<sup>[1]</sup>; [Wang, ZH](#) (Wang, Zhenhua)<sup>[2]</sup>; [Kuen, J](#) (Kuen, Jason)<sup>[2]</sup>; [Ma, LY](#) (Ma, Liyang)<sup>[2]</sup>; [Shahroudy, A](#) (Shahroudy, Amir)<sup>[2]</sup>; [Shuai, B](#) (Shuai, Bing)<sup>[2]</sup>; [Liu, T](#) (Liu, Ting)<sup>[2]</sup>; [Wang, XX](#) (Wang, Xingxing)<sup>[2]</sup>; [Wang, G](#) (Wang, Gang)<sup>[2]</sup>; [Cai, JF](#) (Cai, Jianfei)<sup>[3]</sup>; [Chen, T](#) (Chen, Tsuhan)<sup>[3]</sup>

[ 1 ] [Nanyang Technol Univ](#), Interdisciplinary Grad Sch, ROSE Lab, Singapore, Singapore

[ 2 ] [Nanyang Technol Univ](#), Sch Elect & Elect Engn, Singapore, Singapore

[ 3 ] [Nanyang Technol Univ](#), Sch Comp Sci & Engn, Singapore, Singapore

<b>PATTERN RECOGNITION</b> Volume: 77 Pages: 354-377 DOI: 10.1016/j.patcog.2017.10.013 Published: MAY 2018 Document Type: Article	<b>Times Cited: 70</b> <b>Hot Paper</b> <b>Highly Cited Paper</b>
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4.

### Metal-free efficient photocatalyst for stable visible-light photocatalytic degradation of refractory pollutant

By: ... [Wang, H](#) (Wang, Hou)<sup>[1,2,4]</sup>

[ 4 ] [Nanyang Technol Univ](#), Sch Chem & Biomed Engrn, Singapore 637459, Singapore

<b>APPLIED CATALYSIS B-ENVIRONMENTAL</b> <b>Volume:</b> 221 <b>Pages:</b> 715-725 <b>DOI:</b> 10.1016/j.apcatb.2017.09.059 <b>Published:</b> FEB 2018 <b>Document Type:</b> Article	<b>Times Cited: 70</b> <b>Hot Paper</b> <b>Highly Cited Paper</b>
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5.

**Recent progress on semiconducting polymer nanoparticles for molecular imaging and cancer phototherapy**

By: [Li, JC](#) (Li, Jingchao)<sup>[1]</sup>; ...; [Pu, KY](#) (Pu, Kanyi)<sup>[1]</sup>

[ 1 ] [Nanyang Technol Univ](#), Sch Chem & Biomed Engrn, 70 Nanyang Dr, Singapore 637457, Singapore

<b>BIOMATERIALS</b> <b>Volume:</b> 155 <b>Pages:</b> 217-235 <b>DOI:</b> 10.1016/j.biomaterials.2017.11.025 <b>Published:</b> FEB 2018 <b>Document Type:</b> Review	<b>Times Cited: 70</b> <b>Hot Paper</b> <b>Highly Cited Paper</b>
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6.

**Construction of hierarchical Ni-Co-P hollow nanobricks with oriented nanosheets for efficient overall water splitting**

By: ...; [Nai, JW](#) (Nai, Jianwei)<sup>[2]</sup>; ...; [Lou, XW](#) (Lou, Xiong Wen (David))<sup>[2]</sup>

[ 2 ] [Nanyang Technol Univ](#), Sch Chem & Biomed Engrn, 62 Nanyang Dr, Singapore 637459, Singapore

<b>ENERGY &amp; ENVIRONMENTAL SCIENCE</b> <b>Volume:</b> 11 <b>Issue:</b> 4 <b>Pages:</b> 872-880 <b>DOI:</b> 10.1039/c8ee00076j <b>Published:</b> APR 1 2018 <b>Document Type:</b> Article	<b>Times Cited: 66</b> <b>Hot Paper</b> <b>Highly Cited Paper</b>
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7.

**High phase-purity 1T'-MoS<sub>2</sub>- and 1T'-MoSe<sub>2</sub>- layered crystals**

By: [Yu, YF](#) (Yu, Yifu)<sup>[1,2,3]</sup>; [Nam, GH](#) (Nam, Gwang-Hyeon)<sup>[1,4]</sup>; [He, QY](#) (He, Qiyuan)<sup>[1]</sup>; [Wu, XJ](#) (Wu, Xue-Jun)<sup>[1]</sup>; [Zhang, K](#) (Zhang, Kang)<sup>[5]</sup>; ...; [Chen, JZ](#) (Chen, Junze)<sup>[1]</sup>; [Ma, QL](#) (Ma, Qinglang)<sup>[1]</sup>; [Zhao, MT](#) (Zhao, Meiting)<sup>[1]</sup>; [Liu, ZQ](#) (Liu, Zhengqing)<sup>[1]</sup>; ...; [Wang, XZ](#) (Wang, Xingzhi)<sup>[9]</sup>; ...; [Xiong, QH](#) (Xiong, Qihua)<sup>[9]</sup>; [Zhang, Q](#) (Zhang, Qing)<sup>[5]</sup>; [Liu, Z](#) (Liu, Zheng)<sup>[1]</sup>; ...; [Zhang, H](#) (Zhang, Hua)<sup>[1]</sup>

[ 1 ] [Nanyang Technol Univ](#), Sch Mat Sci & Engrn, Ctr Programmable Mat, Singapore, Singapore

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[ 5 ] [Nanyang Technol Univ](#), Sch Elect & Elect Engrn, Singapore, Singapore

[ 9 ] [Nanyang Technol Univ](#), Sch Phys & Math Sci, Div Phys & Appl Phys, Singapore, Singapore

<b>NATURE CHEMISTRY</b> <b>Volume:</b> 10 <b>Issue:</b> 6 <b>Pages:</b> 638-643 <b>DOI:</b> 10.1038/s41557-018-0035-6 <b>Published:</b> JUN 2018 <b>Document Type:</b> Article	<b>Times Cited: 65</b> <b>Hot Paper</b> <b>Highly Cited Paper</b>
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**8. Construction of ZnIn<sub>2</sub>S<sub>4</sub>-In<sub>2</sub>O<sub>3</sub> Hierarchical Tubular Heterostructures for Efficient CO<sub>2</sub> Photoreduction**

By: [Wang, SB](#) (Wang, Sibo)<sup>[1]</sup>; [Guan, BY](#) (Guan, Bu Yuan)<sup>[1]</sup>; [Lou, XW](#) (Lou, Xiong Wen (David))<sup>[1]</sup>

[ 1 ] [Nanyang Technol Univ](#), Sch Chem & Biomed Engrn, 62 Nanyang Dr, Singapore 637459, Singapore

<b>JOURNAL OF THE AMERICAN CHEMICAL SOCIETY</b> <b>Volume:</b> 140 <b>Issue:</b> 15 <b>Pages:</b> 5037-5040 <b>DOI:</b> 10.1021/jacs.8b02200 <b>Published:</b> APR 18 2018 <b>Document Type:</b> Article	<b>Times Cited: 59</b> <b>Hot Paper</b> <b>Highly Cited Paper</b>
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**9. Hierarchical Hollow Nanoprisms Based on Ultrathin Ni-Fe Layered Double Hydroxide Nanosheets with Enhanced Electrocatalytic Activity towards Oxygen Evolution**

By: [Yu, L](#) (Yu, Le)<sup>[1]</sup>; [Yang, JF](#) (Yang, Jing Fan)<sup>[1]</sup>; [Guan, BY](#) (Guan, Bu Yuan)<sup>[1]</sup>; [Lu, Y](#) (Lu, Yan)<sup>[1]</sup>; [Lou, XW](#) (Lou, Xiong Wen (David))<sup>[1]</sup>

[ 1 ] [Nanyang Technol Univ](#), Sch Chem & Biomed Engrn, 62 Nanyang Dr, Singapore 637459, Singapore

<b>ANGEWANDTE CHEMIE-INTERNATIONAL EDITION</b> <b>Volume:</b> 57 <b>Issue:</b> 1 <b>Pages:</b> 172-176 <b>DOI:</b> 10.1002/anie.201710877 <b>Published:</b> JAN 2 2018 <b>Document Type:</b> Article	<b>Times Cited: 57</b> <b>Hot Paper</b> <b>Highly Cited Paper</b>
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**10. Rational construction of highly transparent superhydrophobic coatings based on a non-particle, fluorine-free and water-rich system for versatile oil-water separation**

By: ...; [Chen, Z](#) (Chen, Zhong)<sup>[2]</sup>; ...

[ 2 ] [Nanyang Technol Univ](#), Sch Mat Sci & Engrn, 50 Nanyang Ave, Singapore, Singapore

<b>CHEMICAL ENGINEERING JOURNAL</b> <b>Volume:</b> 333	<b>Times Cited: 45</b> <b>Hot Paper</b>
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<b>Pages:</b> 621-629 <b>DOI:</b> 10.1016/j.cej.2017.10.006 <b>Published:</b> FEB 1 2018 <b>Document Type:</b> Article	<b>Highly Cited Paper</b>
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11.

**Rationally designed hierarchical N-doped carbon@NiCo<sub>2</sub>O<sub>4</sub> double-shelled nanoboxes for enhanced visible light CO<sub>2</sub> reduction**

By: [Wang, SB](#) (Wang, Sibó)<sup>[1]</sup>; [Guan, BY](#) (Guan, Bu Yuan)<sup>[1]</sup>; [Lou, XW](#) (Lou, Xiong Wen (David))<sup>[1]</sup>

[ 1 ] [Nanyang Technol Univ](#), Sch Chem & Biomed Engr, 62 Nanyang Dr, Singapore 637459, Singapore

<b>ENERGY &amp; ENVIRONMENTAL SCIENCE</b> <b>Volume:</b> 11 <b>Issue:</b> 2 <b>Pages:</b> 306-310 <b>DOI:</b> 10.1039/c7ee02934a <b>Published:</b> FEB 2018 <b>Document Type:</b> Article	<b>Times Cited: 42</b> <b>Hot Paper</b> <b>Highly Cited Paper</b>
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12.

**In-situ synthesis of direct solid-state dual Z-scheme WO<sub>3</sub>/g-C<sub>3</sub>N<sub>4</sub>/Bi<sub>2</sub>O<sub>3</sub> photocatalyst for the degradation of refractory pollutant**

By: ... ; [Wang, H](#) (Wang, Hou)<sup>[4]</sup>; ...

[ 4 ] [Nanyang Technol Univ](#), Sch Chem & Biomed Engr, Singapore 637459, Singapore

<b>APPLIED CATALYSIS B-ENVIRONMENTAL</b> <b>Volume:</b> 227 <b>Pages:</b> 376-385 <b>DOI:</b> 10.1016/j.apcatb.2018.01.042 <b>Published:</b> <b>Document Type:</b> Article	<b>Times Cited: 34</b> <b>Hot Paper</b> <b>Highly Cited Paper</b>
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13.

**Robust Coordination of Distributed Generation and Price-Based Demand Response in Microgrids**

By: ... ; [Xu, Y](#) (Xu, Yan)<sup>[2]</sup>; ...

[ 2 ] [Nanyang Technol Univ](#), Sch Elect & Elect Engr, Singapore 639798, Singapore

<b>IEEE TRANSACTIONS ON SMART GRID</b> <b>Volume:</b> 9 <b>Issue:</b> 5 <b>Pages:</b> 4236-4247 <b>DOI:</b> 10.1109/TSG.2017.2653198 <b>Published:</b> SEP 2018 <b>Document Type:</b> Article	<b>Times Cited: 33</b> <b>Hot Paper</b> <b>Highly Cited Paper</b>
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14.

**Global, regional, and national age-sex-specific mortality for 282 causes of death in 195 countries and territories, 1980-2017: a systematic analysis for the Global Burden of Disease Study 2017**

By: ... ; [Car, LT \(Car, Lorainne Tudor\)<sup>\[946\]</sup>](#); ...

[ 946 ] [Nanyang Technol Univ](#), Lee Kong Chian Sch Med, Singapore, Singapore

<b>LANCET</b> <b>Volume:</b> 392 <b>Issue:</b> 10159 <b>Pages:</b> 1736-1788 <b>DOI:</b> 10.1016/S0140-6736(18)32203-7 <b>Published:</b> NOV 10 2018 <b>Document Type:</b> Article	<b>Times Cited: 32</b> <b>Hot Paper</b>
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15.

**Global, regional, and national incidence, prevalence, and years lived with disability for 354 diseases and injuries for 195 countries and territories, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017**

By: ... ; [Car, LT \(Car, Lorainne Tudor\)<sup>\[948\]</sup>](#) ;

[ 948 ] [Nanyang Technol Univ](#), Lee Kong Chian Sch Med, Singapore, Singapore

<b>LANCET</b> <b>Volume:</b> 392 <b>Issue:</b> 10159 <b>Pages:</b> 1789-1858 <b>DOI:</b> 10.1016/S0140-6736(18)32279-7 <b>Published:</b> NOV 10 2018 <b>Document Type:</b> Article	<b>Times Cited: 27</b> <b>Hot Paper</b>
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16.

**Construction of network-like and flower-like 2H-MoSe<sub>2</sub> nanostructures coupled with porous g-C<sub>3</sub>N<sub>4</sub> for noble-metal-free photocatalytic H<sub>2</sub> evolution under visible light**

By: ... ; [Wu, MD \(Wu, Mingda\)<sup>\[4\]</sup>](#) ; ...

[ 4 ] [Nanyang Technol Univ](#), Sch Mat Sci & Engn, 50 Nanyang Ave, Singapore 639798, Singapore

<b>APPLIED CATALYSIS B-ENVIRONMENTAL</b> <b>Volume:</b> 233 <b>Pages:</b> 26-34 <b>DOI:</b> 10.1016/j.apcatb.2018.03.102 <b>Published:</b> OCT 5 2018 <b>Document Type:</b> Article	<b>Times Cited: 26</b> <b>Hot Paper</b> <b>Highly Cited Paper</b>
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17.

**Global, regional, and national disability-adjusted life-years (DALYs) for 359 diseases and injuries and healthy life expectancy (HALE) for 195 countries and territories, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017**

By: ... ; [Car, LT \(Car, Lorainne Tudor\)<sup>\[929\]</sup>](#) ; [Thirunavukkarasu, S \(Thirunavukkarasu, Sathish\)<sup>\[930\]</sup>](#) ; ...

[ 929 ] Nanyang Technol Univ, Lee Kong Chian Sch Med, Singapore, Singapore  
[ 930 ] Nanyang Technol Univ, Singapore, Singapore

<b>LANCET</b> <b>Volume:</b> 392 <b>Issue:</b> 10159 <b>Pages:</b> 1859-1922 <b>DOI:</b> 10.1016/S0140-6736(18)32335-3 <b>Published:</b> NOV 10 2018 <b>Document Type:</b> Article	<b>Times Cited: 18</b> <b>Hot Paper</b>
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18.

**The rise, collapse, and compaction of Mt. Mantap from the 3 September 2017 North Korean nuclear test**

By: [Wang, T](#) (Wang, Teng)<sup>[1]</sup>; [Shi, QB](#) (Shi, Qibin)<sup>[1,2]</sup>; ...; [Wei, SJ](#) (Wei, Shengji)<sup>[1,2]</sup>; [Barbot, S](#) (Barbot, Sylvain)<sup>[1,2]</sup>; ...

[ 1 ] Nanyang Technol Univ, Earth Observ Singapore, Singapore, Singapore  
[ 2 ] Nanyang Technol Univ, Asian Sch Environm, Singapore, Singapore

<b>SCIENCE</b> <b>Volume:</b> 361 <b>Issue:</b> 6398 <b>Pages:</b> 166-170 <b>DOI:</b> 10.1126/science.aar7230 <b>Published:</b> JUL 13 2018 <b>Document Type:</b> Article	<b>Times Cited: 17</b> <b>Hot Paper</b> <b>Highly Cited Paper</b>
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19.

**Effect of spatial variability of shear strength parameters on critical slip surfaces of slopes**

By: [Qi, XH](#) (Qi, Xiao-Hui)<sup>[1,2]</sup>; ...

[ 2 ] Nanyang Technol Univ, Sch Civil & Environm Engr, Block N1,50 Nanyang Ave, Singapore 639798, Singapore

<b>ENGINEERING GEOLOGY</b> <b>Volume:</b> 239 <b>Pages:</b> 41-49 <b>DOI:</b> 10.1016/j.enggeo.2018.03.007 <b>Published:</b> MAY 18 2018 <b>Document Type:</b> Article	<b>Times Cited: 9</b> <b>Hot Paper</b>
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