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### 1. Deep learning and its applications to machine health monitoring

By: ... ; Chen, ZH (Chen, Zhenghua)<sup>[2]</sup> ; Mao, KZ (Mao, Kezhi)<sup>[2]</sup> ; ...

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

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| MECHANICAL SYSTEMS AND SIGNAL PROCESSING<br>Volume: 115<br>Pages: 213-237<br>DOI: 10.1016/j.ymssp.2018.05.050<br>Published: JAN 15, 2019<br>Document Type: Article | Times Cited: 379<br>Hot Paper<br>Highly Cited Paper |
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### 2. Development of organic semiconducting materials for deep-tissue optical imaging, phototherapy and photoactivation

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

[ 1 ] Nanyang Technol Univ, Sch Chem & Biomed Engn, 70 Nanyang Dr, Singapore 637457

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| CHEMICAL SOCIETY REVIEWS<br>Volume: 48<br>Issue: 1<br>Pages: 38-71<br>DOI: 10.1039/c8cs00001h<br>Published: JAN 7, 2019<br>Document Type: Review | Times Cited: 314<br>Hot Paper<br>Highly Cited Paper |
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### 3. Global, regional, and national burden of neurological disorders, 1990-2016: a systematic analysis for the Global Burden of Disease Study 2016

By: ...Car, LT (Car, Lorraine Tudor)<sup>[549]</sup> ; ...

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

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| LANCET NEUROLOGY<br>Volume: 18<br>Issue: 5<br>Pages: 459-480<br>DOI: 10.1016/S1474-4422(18)30499-X<br>Published: MAY 2019<br>Document Type: Article | Times Cited: 262<br>Hot Paper<br>Highly Cited Paper |
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#### 4. Short-Term Residential Load Forecasting Based on LSTM Recurrent Neural Network

By: ...; Xu, Y (Xu, Yan)<sup>[5]</sup>; ...

[ 5 ] Nanyang Technol Univ, Singapore

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| IEEE TRANSACTIONS ON SMART GRID<br>Volume: 10<br>Issue: 1<br>Pages: 841-851<br>DOI: 10.1109/TSG.2017.2753802<br>Published: JAN 2019<br>Document Type: Article | Times Cited: 240<br>Hot Paper<br>Highly Cited Paper |
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#### 5. Rational molecular passivation for high-performance perovskite light-emitting diodes

By: ...; Tyukalova, E (Tyukalova, Elizaveta)<sup>[7]</sup>; ...; Duchamp, M (Duchamp, Martial)<sup>[7]</sup>; ...

[ 7 ] Nanyang Technol Univ, Sch Mat Sci & Engn, Singapore

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| NATURE PHOTONICS<br>Volume: 13<br>Issue: 6<br>Pages: 418-+<br>DOI: 10.1038/s41566-019-0390-x<br>Published: JUN 2019<br>Document Type: Article | Times Cited: 231<br>Hot Paper<br>Highly Cited Paper |
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#### 6. Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition)

By: ... Kwok, I (Kwok, Immanuel)<sup>[111,204]</sup>; ... Ng, LG (Ng, Lai Guan)<sup>[111,190,204,249,250]</sup>; ...

[ 204 ] Nanyang Technol Univ, Sch Biol Sci, Singapore

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| EUROPEAN JOURNAL OF IMMUNOLOGY<br>Volume: 49<br>Issue: 10<br>Pages: 1457-1973<br>Special Issue: SI<br>DOI: 10.1002/eji.201970107<br>Published: OCT 2019<br>Document Type: Article | Times Cited: 191<br>Hot Paper<br>Highly Cited Paper |
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**7. Chemical and structural origin of lattice oxygen oxidation in Co-Zn oxyhydroxide oxygen evolution electrocatalysts**

By: Huang, ZF (Huang, Zhen-Feng)<sup>[1]</sup>; Song, JJ (Song, Jiajia)<sup>[2,3]</sup>; ...; Dou, S (Dou, Shuo)<sup>[1]</sup>; Nsanzimana, JMV (Nsanzimana, Jean Marie Vianney)<sup>[1]</sup>; ...; Xu, ZCJ (Xu, Zhichuan J.)<sup>[2]</sup>; Wang, X (Wang, Xin)<sup>[1]</sup>

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[ 2 ] Nanyang Technol Univ, Sch Mat Sci & Engn, Singapore

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| NATURE ENERGY<br>Volume: 4<br>Issue: 4<br>Pages: 329-338<br>DOI: 10.1038/s41560-019-0355-9<br>Published: APR 2019<br>Document Type: Article | Times Cited: 178<br>Hot Paper<br>Highly Cited Paper |
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**8. Recommended Practices and Benchmark Activity for Hydrogen and Oxygen Electrocatalysis in Water Splitting and Fuel Cells**

By: Wei, C (Wei, Chao)<sup>[1,2,3,4]</sup>; ...; Xu, ZCJ (Xu, Zhichuan J.)<sup>[1,2,3,4,11]</sup>; ...

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[ 3 ] Nanyang Technol Univ, Solar Fuels Lab, 50 Nanyang Ave, Singapore 639798

[ 4 ] Nanyang Technol Univ, Energy Res Inst, 50 Nanyang Ave, Singapore 639798

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| ADVANCED MATERIALS<br>Volume: 31<br>Issue: 31<br>Special Issue: SI<br>Article Number: 1806296<br>DOI: 10.1002/adma.201806296<br>Published: AUG 2019<br>Document Type: Review | Times Cited: 158<br>Hot Paper<br>Highly Cited Paper |
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## 9. Engineering bunched Pt-Ni alloy nanocages for efficient oxygen reduction in practical fuel cells

By: ...; Lou, XW (Lou, Xiong Wen (David))<sup>[8]</sup>; ...

[ 8 ] Nanyang Technol Univ, Sch Chem & Biomed Engr, 62 Nanyang Dr, Singapore 637459

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| SCIENCE<br>Volume: 366<br>Issue: 6467<br>Pages: 850-+<br>Special Issue: SI<br>DOI: 10.1126/science.aaw7493<br>Published: NOV 15 2019<br>Document Type: Article | Times Cited: 134<br>Hot Paper<br>Highly Cited Paper |
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## 10. Acoustic higher-order topological insulator on a kagome lattice

By: Xue, HR (Xue, Haoran)<sup>[1]</sup>; Yang, YH (Yang, Yahui)<sup>[1]</sup>; ...; Chong, YD (Chong, Yidong)<sup>[1,4]</sup>; Zhang, BL (Zhang, Baile)<sup>[1,4]</sup>

[ 1 ] Nanyang Technol Univ, Sch Phys & Math Sci, Div Phys & Appl Phys, Singapore

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| NATURE MATERIALS<br>Volume: 18<br>Issue: 2<br>Pages: 108-+<br>DOI: 10.1038/s41563-018-0251-x<br>Published: FEB 2019<br>Document Type: Article | Times Cited: 132<br>Hot Paper<br>Highly Cited Paper |
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## 11. Perovskites for Next-Generation Optical Sources

By: ...; Mhaisalkar, SG (Mhaisalkar, Subodh Gautam)<sup>[5]</sup>; ...

[ 5 ] Nanyang Technol Univ, Energy Res Inst, Res Techno Plaza,X Frontier Block,Level 5, Singapore 637553

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| CHEMICAL REVIEWS<br>Volume: 119<br>Issue: 12<br>Pages: 7444-7477<br>DOI: 10.1021/acs.chemrev.9b00107 | Times Cited: 118<br>Hot Paper<br>Highly Cited Paper |
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| Published: JUN 26, 2019<br>Document Type: Review |  |
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**12. Global, regional, and national burden of traumatic brain injury and spinal cord injury, 1990-2016: a systematic analysis for the Global Burden of Disease Study 2016**

By:... Car, LT (Car, Lorainne Tudor)<sup>[372]</sup> ;...

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

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| LANCET NEUROLOGY<br>Volume: 18<br>Issue: 1<br>Pages: 56-87<br>DOI: 10.1016/S1474-4422(18)30415-0<br>Published: JAN 2019<br>Document Type: Article | Times Cited: 118<br>Hot Paper<br>Highly Cited Paper |
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**13. Hollow Structures Based on Prussian Blue and Its Analogs for Electrochemical Energy Storage and Conversion**

By: Nai, JW (Nai, Jianwei)<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

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| ADVANCED MATERIALS<br>Volume: 31<br>Issue: 38<br>Special Issue: SI<br>Article Number: 1706825<br>DOI: 10.1002/adma.201706825<br>Published: SEP 2019<br>Document Type: Article | Times Cited: 116<br>Hot Paper<br>Highly Cited Paper |
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**14. Recent progress of study on optical solitons in fiber lasers**

By: ...; Tang, DY (Tang, Dingyuan)<sup>[3]</sup> ; ...

[ 3 ] Nanyang Technol Univ, Sch Elect & Elect Engr, Singapore 639798

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| APPLIED PHYSICS REVIEWS<br>Volume: 6<br>Issue: 2 | Times Cited: 109<br>Hot Paper<br>Highly Cited Paper |
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| Article Number: 021313<br>DOI: 10.1063/1.5091811<br>Published: JUN 2019<br>Document Type: Review |  |
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## 15. Metabolizable Semiconducting Polymer Nanoparticles for Second Near-Infrared Photoacoustic Imaging

By: Jiang, YY (Jiang, Yuyan)<sup>[1]</sup>; Upputuri, PK (Upputuri, Paul Kumar)<sup>[1]</sup>; Xie, C (Xie, Chen)<sup>[1]</sup>; Zeng, ZL (Zeng, Ziling)<sup>[1]</sup>; Sharma, A (Sharma, Arunima)<sup>[1]</sup>; Zhen, X (Zhen, Xu)<sup>[1]</sup>; Li, JC (Li, Jingchao)<sup>[1]</sup>; Huang, JG (Huang, Jiaguo)<sup>[1]</sup>; Pramanik, M (Pramanik, Manojit)<sup>[1]</sup>; Pu, KY (Pu, Kanyi)<sup>[1]</sup>

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| ADVANCED MATERIALS<br>Volume: 31<br>Issue: 11<br>Article Number: 1808166<br>DOI: 10.1002/adma.201808166<br>Published: MAR 15, 2019<br>Document Type: Article | Times Cited: 103<br>Hot Paper<br>Highly Cited Paper |
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## 16. Iron-facilitated dynamic active-site generation on spinel CoAl<sub>2</sub>O<sub>4</sub> with self-termination of surface reconstruction for water oxidation

By: Wu, TZ (Wu, Tianze)<sup>[1,2,3]</sup>; Sun, SN (Sun, Shengnan)<sup>[1,2,3]</sup>; Song, JJ (Song, Jiajia)<sup>[1]</sup>; ...; Chen, B (Chen, Bo)<sup>[1]</sup>; ...; Liao, HB (Liao, Hanbin)<sup>[1,6]</sup>; Gan, CL (Gan, Chee Lip)<sup>[1,5]</sup>; ...; Xu, ZJ (Xu, Zhichuan J.)<sup>[1,2,3]</sup>

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| NATURE CATALYSIS<br>Volume: 2<br>Issue: 9<br>Pages: 763-772<br>DOI: 10.1038/s41929-019-0325-4<br>Published: SEP 2019<br>Document Type: Article | Times Cited: 90<br>Hot Paper<br>Highly Cited Paper |
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**17. Soil nematode abundance and functional group composition at a global scale**

By: ... ; Wardle, DA (Wardle, David A.)<sup>[5]</sup>; ...

[ 5 ] Nanyang Technol Univ, Asian Sch Environm, Singapore, Singapore

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**18. Design of Heterostructured Hollow Photocatalysts for Solar-to-Chemical Energy Conversion**

By: Zhang, P (Zhang, Peng)<sup>[1]</sup>; Lou, XW (Lou, Xiong Wen (David))<sup>[1]</sup>

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| ADVANCED MATERIALS<br>Volume: 31<br>Issue: 29<br>Article Number: 1900281<br>DOI: 10.1002/adma.201900281<br>Published: JUL 2019<br>Document Type: Review | Times Cited: 78<br>Hot Paper<br>Highly Cited Paper |
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**19. Recent progress in metal-organic frameworks-based hydrogels and aerogels and their applications**

By: ... ; Zhang, QC (Zhang, Qichun)<sup>[3]</sup>

[ 3 ] Nanyang Technol Univ, Sch Mat Sci & Engn, Singapore 639798

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| COORDINATION CHEMISTRY REVIEWS<br>Volume: 398<br>Article Number: 213016<br>DOI: 10.1016/j.ccr.2019.213016<br>Published: NOV 1 2019<br>Document Type: Article; Proceedings Paper | Times Cited: 75<br>Hot Paper<br>Highly Cited Paper |
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**20. A wireless body area sensor network based on stretchable passive tags**

By: ... ; Matsuhisa, N (Matsuhisa, Naoji)<sup>[1,2]</sup> ; ... ; Chen, XD (Chen, Xiaodong)<sup>[2]</sup> ; ...

[ 2 ] Nanyang Technol Univ, Innovat Ctr Flexible Devices iFLEX, Sch Mat Sci & Engrn, Singapore, Singapore

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**21. Enhancing Oxygen Evolution Reaction through Modulating Electronic Structure of Trimetallic Electrocatalysts Derived from Metal-Organic Frameworks**

By: ... Zhang, QC (Zhang, Qichun)<sup>[4]</sup>

[ 4 ] Nanyang Technol Univ, Sch Mat Sci & Engrn, Singapore 639798

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**22. Construction of CoO/Co-Cu-S Hierarchical Tubular Heterostructures for Hybrid Supercapacitors**

By: ... ; Zhang, P (Zhang, Peng)<sup>[2]</sup> ; ... ; Lou, XW (Lou, Xiong Wen (David))<sup>[2]</sup>

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| ANGEWANDTE CHEMIE-INTERNATIONAL EDITION<br>Volume: 58<br>Issue: 43<br>Pages: 15441-15447<br>DOI: 10.1002/anie.201907516 | Times Cited: 63<br>Hot Paper<br>Highly Cited Paper |
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### 23. Metal-Organic Frameworks Based Electrocatalysts for the Oxygen Reduction Reaction

By: Lu, XF (Lu, Xue Feng)<sup>[1]</sup>; ... ; Lou, XW (Lou, Xiong Wen (David))<sup>[1]</sup>

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| ANGEWANDTE CHEMIE-INTERNATIONAL EDITION<br>Volume: 59<br>Issue: 12<br>Pages: 4634-4650<br>DOI: 10.1002/anie.201910309<br>Published: MAR 16 2020<br>Early Access: DEC 2019<br>Document Type: Review | Times Cited: 48<br>Hot Paper |
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### 24. Near-Infrared Photoactivatable Semiconducting Polymer Nanoblockaders for Metastasis-Inhibited Combination Cancer Therapy

By: Li, JC (Li, Jingchao)<sup>[1]</sup>; Cui, D (Cui, Dong)<sup>[1]</sup>; Jiang, YY (Jiang, Yuyan)<sup>[1]</sup>; Huang, JG (Huang, Jiaguo)<sup>[1]</sup>; Cheng, PH (Cheng, Penghui)<sup>[1]</sup>; Pu, KY (Pu, Kanyi)<sup>[1]</sup>

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## 25. Insights into the speciation of heavy metals during pyrolysis of industrial sludge

By: Udayanga, WDC (Udayanga, W. D. Chanaka)<sup>[1,2,3]</sup>; Veksha, A (Veksha, Andrei)<sup>[1]</sup>; Giannis, A (Giannis, Apostolos)<sup>[1,4]</sup>; Liang, YN (Liang, Yen Nan)<sup>[1]</sup>; Lisak, G (Lisak, Grzegorz)<sup>[1,2]</sup>; Hu, X (Hu, Xiao)<sup>[5]</sup>; Lim, TT (Lim, Teik-Thye)<sup>[1,2]</sup>

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| SCIENCE OF THE TOTAL ENVIRONMENT<br>Volume: 691<br>Pages: 232-242<br>DOI: 10.1016/j.scitotenv.2019.07.095<br>Published: NOV 15, 2019<br>Document Type: Article | Times Cited: 20<br>Hot Paper |
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