

IAS congratulates the NTU faculty who have authored or co-authored the Hot Papers in Web of Science for 2017 publications as listed below!

Please refer to the Web of Science entry for the definitions of [Hot Papers](#).

As at 3 May 2019

Number Index

B

Boehm, Bernhard O., 3., 17.

C

Cao, Xiehong, 1.

Car, Josip, 2., 9.

Chambers, John C., 8.

Chen, Geng, 19.

Chen, Junze, 1.

Chen, Li-Feng, 6.

Chen, Xiaodong, 5., 19.

D

Doitomi, Kazuki, 20.

G

Gruen, Russell L., 15.

Guan, Bu Yuan, 11., 16., 18.

H

Han, Shikui, 1.

He, Ke, 19.

He, Peilei, 10.

He, Qiyuan, 1.

Hirao, Hajime, 20.

L

Leow, Wan Ru, 19.

Li, Hong, 14.

Liu, Yaqing, 19.

Lou, Xiong Wen (David), 6., 10., 11., 12., 16., 18.

Lu, Yan, 6., 18.

N

Nam, Gwang-Hyeon, 1.

S

Sindoro, Melinda, 1., 4.

Sun, Shengnan, 21.

T

Tan, Chaoliang, 1., 4.

Teo, Wee Siang, 13.

W

Wang, Hou, 7., 22.

Wang, Sibao, 16., 18.

Wu, Xue-Jun, 1.

X

Xu, Zhichuan J., 21.

Y

Yang, Jian, 1.

Yu, Le, 6., 16.

Yu, Xin-Yao, 10.

Z

Zhang, Hua, 1., 4.

Zhang, Xiao, 1.

Zhao, Wei, 1.

1.

Recent Advances in Ultrathin Two-Dimensional Nanomaterials

By: [Tan, CL](#) (Tan, Chaoliang)^[1]; [Cao, XH](#) (Cao, Xiehong)^[1,2]; [Wu, XJ](#) (Wu, Xue-Jun)^[1]; [He, QY](#) (He, Qiyuan)^[1]; [Yang, J](#) (Yang, Jian)^[1]; [Zhang, X](#) (Zhang, Xiao)^[1]; [Chen, JZ](#) (Chen, Junze)^[1]; [Zhao, W](#) (Zhao, Wei)^[1]; [Han, SK](#) (Han, Shikui)^[1]; [Nam, GH](#) (Nam, Gwang-Hyeon)^[1]; [Sindoro, M](#) (Sindoro, Melinda)^[1]; [Zhang, H](#) (Zhang, Hua)^[1]

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

CHEMICAL REVIEWS Volume: 117 Issue: 9 Pages: 6225-6331 DOI: 10.1021/acs.chemrev.6b00558 Published: MAY 10 2017 Document Type: Review	Times Cited: 765 Hot Paper Highly Cited Paper
---	--

2.

Global, regional, and national age-sex specific mortality for 264 causes of death, 1980-2016: a systematic analysis for the Global Burden of Disease Study 2016

By: ... [Car, J](#) (Car, Josip)^[120,133]; ...

[133] [Nanyang Technol Univ](#), Singapore, Singapore

...

LANCET Volume: 390 Issue: 10100 Pages: 1151-1210 DOI: 10.1016/S0140-6736(17)32152-9 Published: SEP 16 2017 Document Type: Article	Times Cited: 562 Hot Paper Highly Cited Paper
--	--

3.

Worldwide trends in body-mass index, underweight, overweight, and obesity from 1975 to 2016: a pooled analysis of 2416 population-based measurement studies in 128.9 million children, adolescents, and adults

By: ... [Boehm, BO](#) (Boehm, Bernhard O.)^[115] ...

[115] [Nanyang Technol Univ](#), Singapore, Singapore

LANCET Volume: 390 Issue: 10113 Pages: 2627-2642 DOI: 10.1016/S0140-6736(17)32129-3 Published: DEC 16 2017 Document Type: Article	Times Cited: 380 Hot Paper Highly Cited Paper
--	--

4.

Hybrid micro-/nano-structures derived from metal-organic frameworks: preparation and applications in energy storage and conversion

By: ... **Tan, CL (Tan, Chaoliang)^[21]**; **Sindoro, M (Sindoro, Melinda)^[21]**; **Zhang, H (Zhang, Hua)^[21]**

[2] **Nanyang Technol Univ**, Sch Mat Sci & Engrn, Ctr Programmable Mat, 50 Nanyang Ave, Singapore 639798, Singapore

CHEMICAL SOCIETY REVIEWS Volume: 46 Issue: 10 Pages: 2660-2677 DOI: 10.1039/c6cs00426a Published: MAY 21 2017 Document Type: Review	Times Cited: 223 Hot Paper Highly Cited Paper
--	--

5.

Diverse Applications of Nanomedicine

By: ... **Chen, XD (Chen, Xiaodong)^[28]**; ...

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

ACS NANO Volume: 11 Issue: 3 Pages: 2313-2381 DOI: 10.1021/acsnano.6b06040 Published: MAR 2017 Document Type: Article	Times Cited: 201 Hot Paper Highly Cited Paper
--	--

6.

Designed formation of hollow particle-based nitrogen-doped carbon nanofibers for high-performance supercapacitors

By: **Chen, LF** (Chen, Li-Feng)^[1]; **Lu, Y** (Lu, Yan)^[1]; **Yu, L** (Yu, Le)^[1]; **Lou, XW** (Lou, Xiong Wen (David))^[1]

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

ENERGY & ENVIRONMENTAL SCIENCE Volume: 10 Issue: 8 Pages: 1777-1783 DOI: 10.1039/c7ee00488e Published: AUG 1 2017 Document Type: Article	Times Cited: 187 Hot Paper Highly Cited Paper
---	--

7.

Doping of graphitic carbon nitride for photocatalysis: A review

By:... **Wang, H** (Wang, Hou)^[1,2,3]

[3] **Nanyang Technol Univ**, Sch Chem & Biomed Engr, Singapore 637459, Singapore

APPLIED CATALYSIS B-ENVIRONMENTAL Volume: 217 Pages: 388-406 DOI: 10.1016/j.apcatb.2017.06.003 Published: NOV 15 2017 Document Type: Review	Times Cited:174 Highly Cited Paper Hot Paper
--	---

8.

Epigenome-wide association study of body mass index, and the adverse outcomes of adiposity

By:... **Chambers, JC**(Chambers, John C.)^[5,8,11,74,75]

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

NATURE Volume: 541 Issue: 7635 Pages: 81-+ DOI: 10.1038/nature20784 Published: JAN 5 2017 Document Type: Article	Times Cited: 160 Hot Paper Highly Cited Paper
---	--

9.

Global, regional, and national under-5 mortality, adult mortality, age-specific mortality, and life expectancy, 1970-2016: a systematic analysis for the Global Burden of Disease Study 2016

By: ... Car, J (Car, Josip)^[202,206];

[202] Nanyang Technol Univ, Singapore, Singapore

LANCET Volume: 390 Issue: 10100 Pages: 1084-1150 DOI: 10.1016/S0140-6736(17)31833-0 Published: SEP 16 2017 Document Type:Article	Times Cited: 158 Hot Paper Highly Cited Paper
---	--

10.

Carbon-Incorporated Nickel-Cobalt Mixed Metal Phosphide Nanoboxes with Enhanced Electrocatalytic Activity for Oxygen Evolution

By: He, P (He, Peilei)^[11]; Yu, XY (Yu, Xin-Yao)^[11]; Lou, XW (Lou, Xiong Wen (David))^[11]

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

ANGEWANDTE CHEMIE-INTERNATIONAL EDITION Volume: 56 Issue: 14 Pages: 3897-3900 DOI: 10.1002/anie.201612635 Published: MAR 27 2017 Document Type:Article	Times Cited: 157 Hot Paper Highly Cited Paper
---	--

11.

Complex Nanostructures from Materials based on Metal-Organic Frameworks for Electrochemical Energy Storage and Conversion

By: Guan, BY (Guan, Bu Yuan)^[11]; ... Lou, XW (Lou, Xiong Wen (David))^[11]

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

ADVANCED MATERIALS Volume: 29 Issue: 47 Article Number: UNSP 1703614 DOI: 10.1002/adma.201703614 Published: DEC 20 2017 Document Type:Review	Times Cited: 138 Hot Paper Highly Cited Paper
---	--

12.

Metal-organic frameworks and their derived materials for electrochemical energy storage and conversion: Promises and challenges

By: ... ; Lou, XW (Lou, Xiong Wen (David))^[1,2]

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

SCIENCE ADVANCES Volume: 3 Issue: 12 Article Number: UNSP eaap9252 DOI: 10.1126/sciadv.aap9252 Published: DEC 2017 Document Type: Review	Times Cited: 129 Hot Paper Highly Cited Paper
---	--

13.

Recent Progress in Energy-Driven Water Splitting

By: ... Teo, WS (Teo, Wee Siang)^[3]; ...

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

ADVANCED SCIENCE Volume: 4 Issue: 5 Article Number: 1600337 DOI: 10.1002/advs.201600337 Published: MAY 2017 Document Type: Article	Times Cited: 113 Hot Paper Highly Cited Paper
---	--

14.

Electrochemical generation of sulfur vacancies in the basal plane of MoS₂ for hydrogen evolution

By: ... Li, H (Li, Hong)^[3,4]; ...

[4] Nanyang Technol Univ, Sch Mech & Aerosp Engrn, Singapore 639798, Singapore

[4] Nanyang Technol Univ, Sch Mech & Aerosp Engrn, Singapore 639798, Singapore NATURE COMMUNICATIONS Volume: 8 Article Number: 15113 DOI: 10.1038/ncomms15113 Published: APR 21 2017 Document Type: Article	Times Cited: 102 Hot Paper Highly Cited Paper
--	--

15.

Traumatic brain injury: integrated approaches to improve prevention, clinical care, and research

By: ...; Gruen, RL (Gruen, Russell L.)^[33,34,35]; ...

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

LANCET NEUROLOGY Volume: 16 Issue: 12 Pages: 987-1048 DOI: 10.1016/S1474-4422(17)30371-X Published: DEC 2017 Document Type:Review	Times Cited: 96 Hot Paper Highly Cited Paper
--	---

16.

Rational Design of Three-Layered TiO₂@Carbon@MoS₂ Hierarchical Nanotubes for Enhanced Lithium Storage

By: Wang, SB (Wang, Sibor)^[11]; Guan, BY (Guan, Bu Yuan)^[11]; Yu, L (Yu, Le)^[11]; Lou, XW (Lou, Xiong Wen (David))^[11]

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

ADVANCED MATERIALS Volume: 29 Issue: 37 Article Number: 1702724 DOI: 10.1002/adma.201702724 Published: OCT 4 2017 Document Type:Article	Times Cited: 95 Hot Paper Highly Cited Paper
--	---

17.

An Expanded Genome-Wide Association Study of Type 2 Diabetes in Europeans

By: 147 authors from around the world.

... Boehm, BO (Boehm, Bernhard O.)^[109,110]; ...

[110] Nanyang Technol Univ, Imperial Coll London, Lee Kong Chian Sch Med, Singapore, Singapore

DIABETES Volume: 66 Issue: 11 Pages: 2888-2902 DOI: 10.2337/db16-1253 Published: NOV 1 2017 Document Type:Article	Times Cited: 88 Hot Paper Highly Cited Paper
--	---

18.

Formation of Hierarchical In₂S₃-CdIn₂S₄ Heterostructured Nanotubes for Efficient and Stable Visible Light CO₂ Reduction

By: [Wang, SB](#) (Wang, Sibao)^[1]; [Guan, BY](#) (Guan, Bu Yuan)^[1]; [Lu, Y](#) (Lu, Yan)^[1]; [Lou, XW](#) (Lou, Xiong Wen "David")^[1]

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

JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Volume: 139 Issue: 48 Pages: 17305-17308 DOI: 10.1021/jacs.7b10733 Published: DEC 6 2017 Document Type:Article	Times Cited: 84 Hot Paper Highly Cited Paper
--	---

19.

Nature-Inspired Structural Materials for Flexible Electronic Devices

By: [Liu, YQ](#) (Liu, Yaqing)^[1]; [He, K](#) (He, Ke)^[1]; [Chen, G](#) (Chen, Geng)^[1]; [Leow, WR](#) (Leow, Wan Ru)^[1]; [Chen, XD](#) (Chen, Xiaodong)^[1]

[1] [Nanyang Technol Univ](#), Sch Mat Sci & Engr, Innovat Ctr Flexible Devices iFLEX, 50 Nanyang Ave, Singapore 639798, Singapore

CHEMICAL REVIEWS Volume: 117 Issue: 20 Pages: 12893-12941 DOI: 10.1021/acs.chemrev.7b00291 Published: OCT 25 2017 Document Type:Review	Times Cited: 79 Hot Paper Highly Cited Paper
---	---

20.

Enhanced selectivity in mixed matrix membranes for CO₂ capture through efficient dispersion of amine-functionalized MOF nanoparticles

By: ... ; [Doitomi, K](#) (Doitomi, Kazuki)^[4,5]; ... ; [Hirao, H](#) (Hirao, Hajime)^[4,5]; ...

[5] [Nanyang Technol Univ](#), Sch Phys & Math Sci, Div Chem & Biol Chem, 21 Nanyang Link, Singapore 637371, Singapore

NATURE ENERGY Volume: 2 Issue: 7 Article Number: 17086 DOI: 10.1038/nenergy.2017.86 Published: JUL 2017 Document Type:Article	Times Cited: 75 Hot Paper Highly Cited Paper
--	---

21.

Graphitic C₃N₄ modified by Ni₂P cocatalyst: An efficient, robust and low cost photocatalyst for visible-light-riven H₂ evolution from water

By: ... **Sun, SN (Sun, Shengnan)^[2]**; ... **Xu, ZJ (Xu, Zhichuan J.)^[2]**

[2] Nanyang Technol Univ, Sch Mat Sci & Engn, 50 Nanyang Ave, Singapore 639798, Singapore

CHEMICAL ENGINEERING JOURNAL Volume: 315 Pages: 296-303 DOI: 10.1016/j.cej.2017.01.034 Published: MAY 1 2017 Document Type:Article	Times Cited: 57 Hot Paper Highly Cited Paper
--	---

22.

Highly efficient visible-light-induced photoactivity of Z-scheme Ag₂CO₃/Ag/WO₃ photocatalysts for organic pollutant degradation

By: ... **Wang, H (Wang, Hou)^[1,2,4]**; ...

[4] **Nanyang Technol Univ**, Sch Chem & Biomed Engn, Singapore 637459, Singapore

ENVIRONMENTAL SCIENCE-NANO Volume: 4 Issue: 11 Pages: 2175-2185 DOI: 10.1039/c7en00713b Published: NOV 1 2017 Document Type:Article	Times Cited: 35 Hot Paper Highly Cited Paper
--	---