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PEER-REVIEWED PUBLICATIONS

- A laser-engraved wearable sensor for sensitive detection of uric acid and tyrosine in sweat**, *Nature biotechnology* 38 (2), 217-224 [↗](#) 2020
- Authors: Y. Yang, Y. Song, X. Bo et al. (co-first authors)
 - Journal Impact Factor: 68.164, ranked 2/158 in Biotechnology & Applied Microbiology
 - Highlighted as Editor's Choice [↗](#) by *Science Translational Medicine*
 - Highlighted in *Physics World* [↗](#), *Xinhua* [↗](#), *Science Daily* [↗](#), and more
 - Featured on Back Cover [↗](#) of *Caltech Magazine*
 - Highly cited paper in Web of Science, top 1% of the academic field of Biology & Biochemistry
- Wearable and flexible electronics for continuous molecular monitoring**, *Chemical Society Reviews* 48 (6), 1465-1491 [↗](#) 2019
- Authors: Y. Yang and W. Gao
 - Journal Impact Factor: 60.615, ranked 2/179 in Interdisciplinary Chemistry
 - Featured on Journal Front Cover [↗](#)
 - Highly Cited Paper in Web of Science, top 1% of the academic field of Chemistry
- A wearable electrochemical biosensor for the monitoring of metabolites and nutrients**, *Nature Biomedical Engineering* [↗](#) 2022
- Authors: M. Wang, Y. Yang, J. Min et al. (co-first authors)
 - Journal Impact Factor: 29.234, ranked 1/98 in Biomedical Engineering
 - Highlighted in *Caltech News* [↗](#), *HospiMedica* [↗](#), *All about Circuits* [↗](#), *New Atlas* [↗](#)
- Biofuel-powered soft electronic skin with multiplexed and wireless sensing for human-machine interfaces**, *Science Robotics* 5 (41), eaaz7946 [↗](#) 2020
- Authors: Y. Yu, J. Nassar, C. Xu, J. Min, Y. Yang et al.
 - Journal Impact Factor: 27.541, ranked 1/30 in Robotics
 - Highlighted as Editor's Research Highlight [↗](#) by *Nature Electronics*
 - Highly Cited Paper in Web of Science, top 1% of the academic field of Engineering
 - Highlighted in *Yahoo News* [↗](#), *The Engineer* [↗](#), *CNET* [↗](#), *Inside Science* [↗](#), and more
- Skin-interfaced sensors in digital medicine: from materials to applications**, *Matter* 2 (6), pp.1414-1445 [↗](#) 2020
- Authors: C. Xu, Y. Yang and W. Gao
 - Journal Impact Factor: 19.967, ranked 16/345 in Multidisciplinary Materials Science
- Investigation of cortisol dynamics in human sweat using a graphene-based wireless mHealth system**, *Matter* 2 (4), pp.921-937 [↗](#) 2020
- Authors: R. M. Torrente-Rodríguez, J. Tu, Y. Yang et al.
 - Journal Impact Factor: 19.967, ranked 16/345 in Multidisciplinary Materials Science
 - Highlighted in Preview Article [↗](#) by Prof. John Rogers at Northwestern University in *Matter*
 - Highly Cited Paper in Web of Science, top 1% in the academic field of Materials Science
 - Highlighted in *The Engineer* [↗](#), *Azo Sensors* [↗](#), *Science Daily* [↗](#), *Yahoo News* [↗](#), and more

- Laser-engraved graphene for flexible and wearable electronics,** 2021
Trends in Chemistry 3 (11), 969-981 [↗](#)
- Authors: M. Wang, Y. Yang and W. Gao
 - Journal Impact Factor: 22.448, ranked 9/179 in Multidisciplinary Chemistry
- Wireless battery-free wearable sweat sensor powered by human motion,** 2020
Science Advances 6 (40), eaay9842 [↗](#)
- Authors: Y. Song, J. Min, Y. Yu, H. Wang, Y. Yang et al.
 - Journal Impact Factor: 14.957, ranked 7/73 in Multidisciplinary Sciences
 - Highly Cited Paper in Web of Science, top 1% in the academic field of Materials Science.
- SARS-CoV-2 RapidPlex: A graphene-based multiplexed telemedicine platform for rapid and low-cost COVID-19 diagnosis and monitoring,** 2020
Matter 3 (6), 1981-1998 [↗](#)
- Authors: R. M. Torrente-Rodríguez, H. Lukas, J. Tu, J. Min, Y. Yang et al.
 - Journal Impact Factor: 19.967, ranked 16/345 in Multidisciplinary Materials Science
 - Hot Paper in Web of Science, top 0.1% in the academic field of Materials Science
 - Highlighted in Preview Article [↗](#) by Prof. Wei Tao at Harvard University in *Matter*.
 - Highlighted in *Fast Company* [↗](#) , *Forbes* [↗](#) , and more.
 - Featured on Journal Cover [↗](#) .
- Robotics in the gut,** *Advanced Therapeutics* 3 (4), 1900125 [↗](#) 2020
- Authors: J. Min, Y. Yang, Z. Wu and W. Gao
 - Journal Impact Factor: 5.003, ranked 78/279 in Pharmacology & Pharmacy.
- A microrobotic system guided by photoacoustic computed tomography for targeted navigation in intestines in vivo,** *Science Robotics* 4 (32), eaax0613 [↗](#) 2019
- Authors: Z. Wu, L. Li, Y. Yang, P. Hu, Y. Li, S.-Y. Yang, L. V. Wang and W. Gao
 - Journal Impact Factor: 27.541, ranked 1/30 in Robotics
 - Highly Cited Paper in Web of Science, top 1% in the academic field of Engineering
 - Highlighted in *Optics & Photonics News* [↗](#) , *New York Post* [↗](#) , *SPIE* [↗](#) , and more.
- Achromatization method for multichannel fluorescence imaging systems,** 2019
Optical Engineering 58 (1), 015106 [↗](#)
- Authors: M. E. Pawlowski, Y. Yang, C. Wong, T. S. Tkaczyk
- Photocatalytic micro/nanomotors: from construction to applications,** 2018
Accounts of Chemical Research 51 (9), 1940-1947 [↗](#)
- Authors: R. Dong, Y. Cai, Y. Yang et al.
 - Journal Impact Factor: 24.466, ranked 7/179 in Multidisciplinary Chemistry
- Keeping the rhythm: light/dark cycles during postharvest storage preserve the tissue integrity and nutritional content of leafy plants,** 2015
BMC plant biology 15 (1), 1-9 [↗](#)
- Authors: J. D. Liu, D. Goodspeed, Z. Sheng, B. Li, Y. Yang et al.
 - Journal Impact Factor: 5.26, ranked 30/238 in Plant Sciences