Environmental Science Water Research & Technology

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See Milad Rabbani Esfahani *et al.*, pp. 1151–1162.
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TUTORIAL REVIEW

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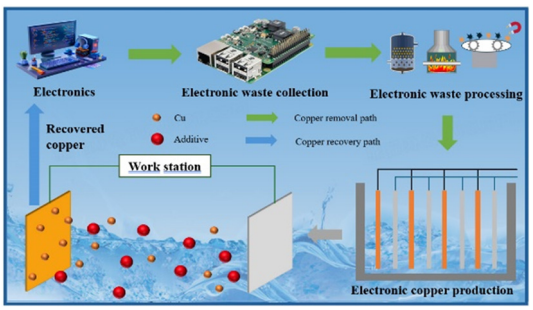
Research advancements in the treatment of wastewater containing pollutants in printed circuit board production

Zicheng Zeng, Lei Huang, Guoqing Wu, Meng Li, Hongyu Wang, Meng Zhao and Hongguo Zhang*



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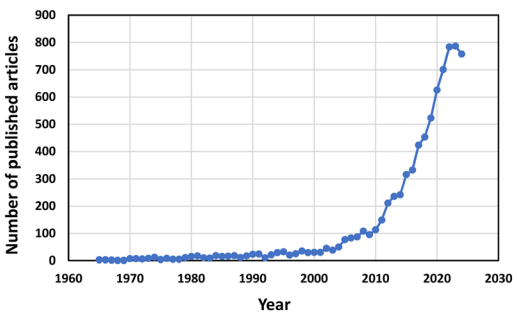
Recent advances in thin film composite (TFC) membrane development: materials and modification methods

Ebraheem Abdu Musad Saleh, Abhinav Kumar, Tawfeeq Alghazali, Subbulakshmi Ganesan, Aman Shankhyan, Girish Chandra Sharma, Kandi Satyam Naidu and Masoud Rahbari-Sisakht*



CRITICAL REVIEWS

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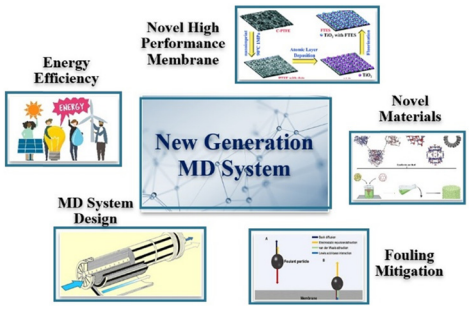
A comprehensive review of advancements in membrane distillation for liquid separation and hazardous contaminant removal: innovations in design, integration, and performance

N. Ramkumar and P. Monash*



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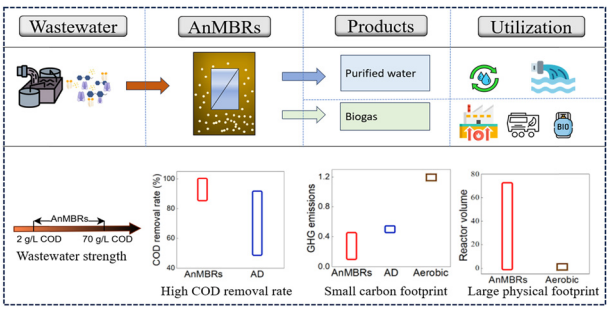
Anaerobic membrane bioreactors for treating high organic content wastewater and reducing fugitive greenhouse gas emission

Huihui Yu, M. A. H. Johir, Ashley J. Ansari and Long D. Nghiem*



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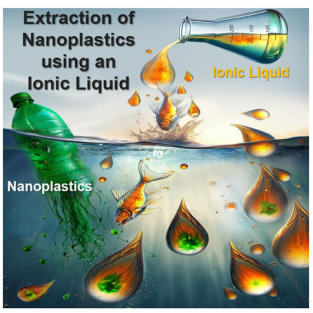
Efficient extraction of polystyrene nanoplastics from water using an ionic liquid

Ashish Srivastava, Sudhir Ravula, Jason E. Bara and Milad Rabbani Esfahani*



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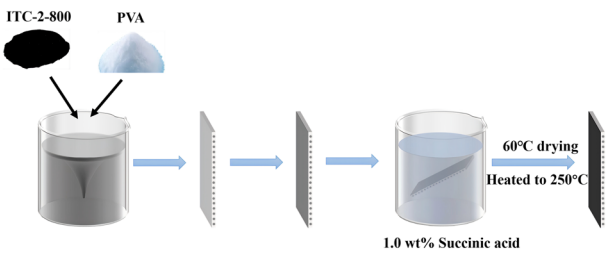
Cyanobacterial biochar modified ceramic membrane for *in situ* filtration and peroxymonosulfate activation: focusing on interface adjustment and enhanced anti-fouling

Kunlun Yang,* Dengyang Wang, Yuxuan Yang, Youxiang Pan, Mengsi Wu and Hengfeng Miao*



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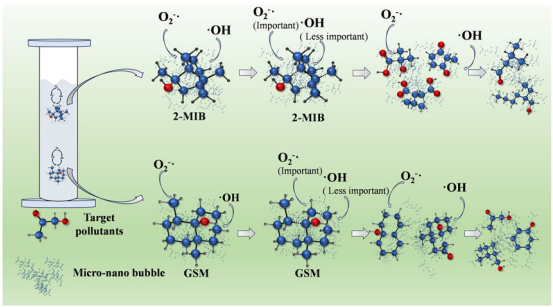

The degradation of 2-methylisobornyl alcohol and geosmin through a micro-nano bubble-activated ozone process: the dual mechanism of enhanced degradation efficiency

Yuehua Ren, Yonglei Wang,* Xinglin Wang, Baozhen Liu,* Guilin He, Yanli Gong, Baosen Liu and Ruibao Jia

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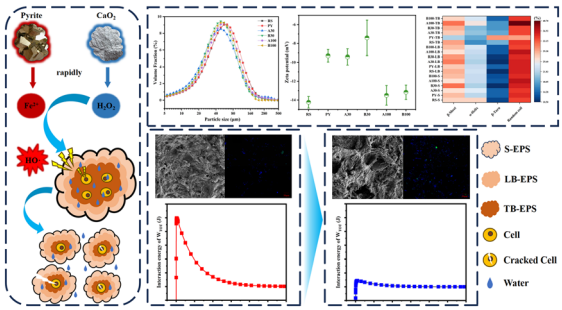

Improvement of sludge dewatering by calcium peroxide activated with pyrite: performances, mechanisms and implications

Jinyun Chen, Xiaoshuang Liu, Ziheng Dai, Lei Liu, Yuhan Fan, Weiqi Liu and Liguo Zhang*

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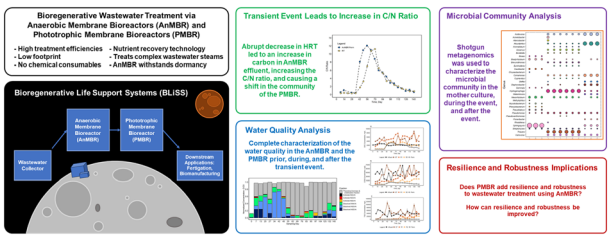

Effects of an anaerobic membrane bioreactor upset event on nitrogen speciation and microbial community in a downstream phototrophic membrane bioreactor

Daniella Saetta,* Jason A. Fischer, Ashley Triana, Talon Bullard, Alexandra Smith, Cory J. Spern, Anirudha Dixit, Christina L. Khodadad, Daniel H. Yeh and Luke B. Roberson

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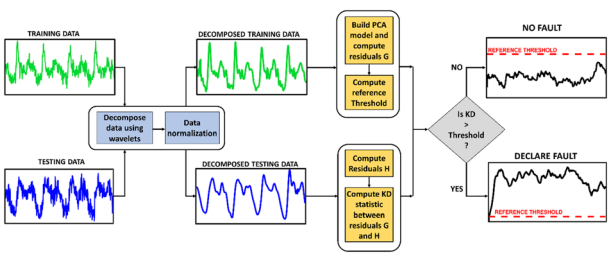

Enhancing fault detection in wastewater treatment plants: a multi-scale principal component analysis approach with the Kantorovich distance

K. Ramakrishna Kini, Fouzi Harrou,* Muddu Madakyaru* and Ying Sun

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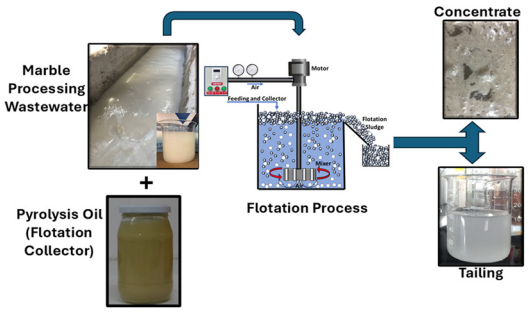
Usability of waste plastic pyrolysis liquid/oil as a flotation collector in wastewater treatment

Merve Kalem



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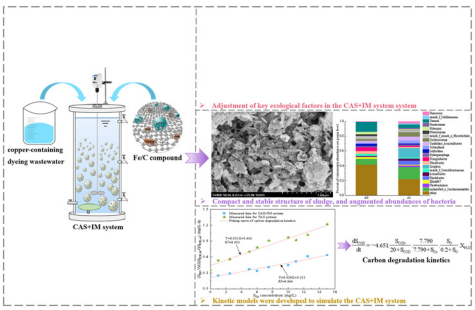
Operational strategy and mechanism analysis of an iron–carbon micro-electric technology coupled with the activated sludge process for copper-containing dyeing wastewater treatment

Feng Gao,* Chongyang Wang,* Sheng Gao, Yuanyuan Liu, Peng Li and Shengli Chen



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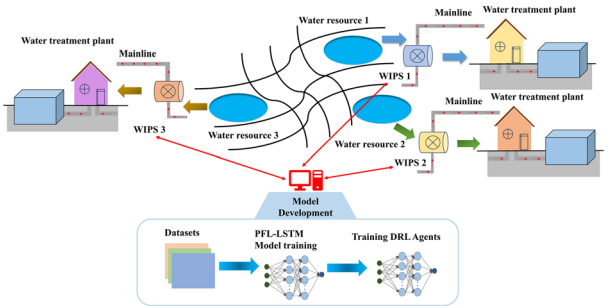
Energy-saving scheduling for multiple water intake pumping stations in water treatment plants based on personalized federated deep reinforcement learning

Dongsheng Wang, Ao Li, Yicong Yuan, Tingjun Zhang, Liang Yu* and Chaoqun Tan*



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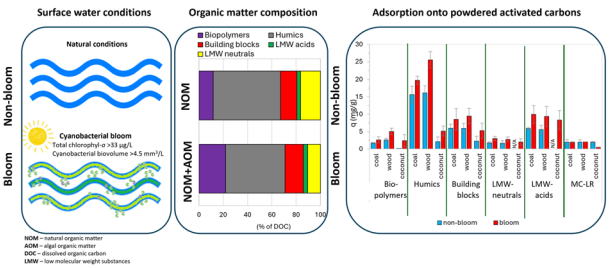
Microcystin-LR removal by powdered activated carbon: the influence of natural organic matter in non-bloom and bloom water

Katarzyna Jaszczyszyn,* Sigrid Peldszus and Peter M. Huck



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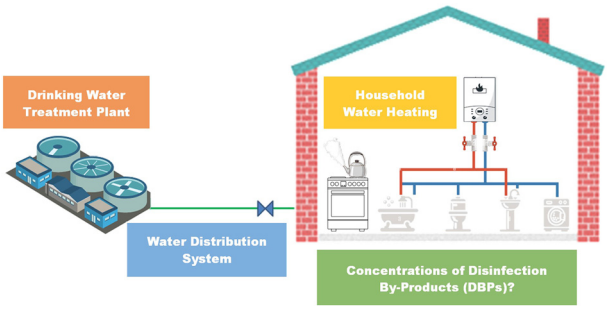

Effects of heating temperature and water age on the formation of disinfection by-products in drinking water

Xiaolu Zhang,* Hongwei Yang, Chao Liu, Xiaomao Wang* and Yuefeng F. Xie

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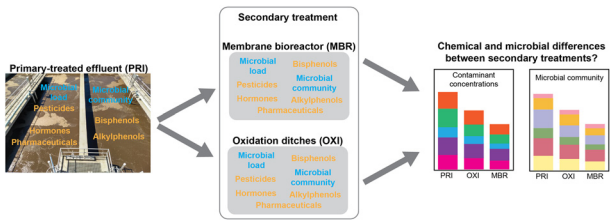

Comparing contaminants of emerging concern and microbial signatures of wastewater treated by membrane bioreactor and oxidation ditch methods

Carrie E. Givens, Sarah M. Elliott,* Richard L. Kiesling, Charles H. Christen and Heiko L. Schoenfuss

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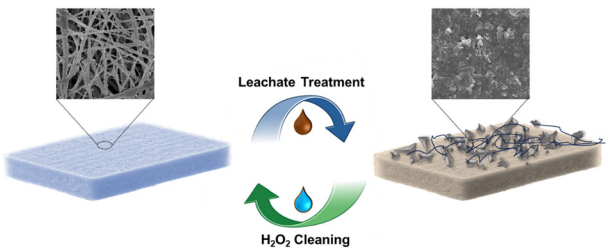

***In situ* catalytic membrane technology for antifouling and sustainable landfill leachate management**

Zhongsen Yan, Zihan Tang, Yongyuan Wang, Yuling Jiang, Haiqing Chang, Juxiang Jin,* Yujia Peng and Fangshu Qu*

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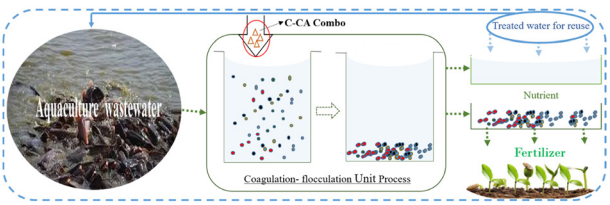

Evaluating the feasibility of creating a zero waste discharge aquaculture system

N. A. Oladoja,* J. A. Ogunniyi, Y. I. Bulu, R. O. A. Adelagun, M. O. Alfred and E. I. Unuabonah*

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Novel fluidized-bed bioreactors with density-graded carriers for the bioremediation of nitrate in uranium industry effluents

Mariano Venturini, Paula Bucci* and Raúl Muñoz