Title	Journal	Link	Publication date	References	Top Paper
Magnetic black phosphorus microbubbles for targeted tumor theranostics	Nanophotonics	https://www.degruyter.com/document/doi/10.1515/nanoph-2021-0085/html	2021	Yao, Zhu, Yingying, Liu, Zhongjian, Xie, Tianzhen, He, Lili, Su, Fengjuan, Guo, Gulzira, Arkin, Xiaoshu, Lai, Jinfeng, Xu, Han, Zhang	Yes
Photoacoustic Imaging Quantifies Drug Release from Nanocarriers via Redox Chemistry of Dye-Labeled Cargo	Angewandte Chemie International Edition	https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201914120	2020	Ananthakrishnan Soundaram, Jeevarathinam, Jeanne E., Lemaster, Fang, Chen, Eric, Zhao, Jesse V., Jokerst	Yes
Multimodal and multiscale optical imaging of nanomedicine delivery across the blood-brain barrier upon sonopermeation	Theranostics	http://www.thno.org/v10p1948.htm	2020	Jan-Niklas, May, Susanne K., Golombek, Maike, Baues, Anshuman, Dasgupta, Natascha, Drude, Anne, Rix, Dirk, Rommel, Saskia, von Stillfried, Lia, Appold, Robert, Pola, Michal, Pechar, Louis, van Bloois, Gert, Storm, Alexander J. C., Kuehne, Felix, Gremse, Benjamin, Theek, Fabian, Kiessling, Twan, Lammers	Yes
Mesocrystalline ZnS nanoparticles-augmented sonocatalytic full water splitting into H2/O2 for immunoactivating deep tumor	Biomaterials	https://doi.org/10.1016/j.biomaterials.2023.122090	2023	Chao, Xia, Anbang, Wu, Zhaokui, Jin, Lingting, Zeng, Lingdong, Jiang, Qingqing, Xu, Mingjian, Fan, Qianjun, He	No
Hypoxia-Responsive Aggregation of Gold Nanoparticles for Near-Infrared-II Photoacoustic Imaging-Guided Enhanced Radiotherapy	Langmuir	https://doi.org/10.1021/acs.langmuir.2c03399	2022	Huafeng, Geng, Ke, Chen, Lu, Cao, Luntao, Liu, Yue, Huang, Junbao, Liu	No
Low-dose X-ray enhanced tumor accumulation of theranostic nanoparticles for high-performance bimodal imaging-guided photothermal therapy	Journal of Nanobiotechnology	https://doi.org/10.1186/s12951-021-00875-8	2021	Qiaolin, Wei, Jian, He, Shuaifei, Wang, Shiyuan, Hua, Yuchen, Qi, Fangyuan, Li, Daishun, Ling, Min, Zhou	No
Dual mitigation of immunosuppression combined with photothermal inhibition for highly effective primary tumor and metastases therapy	Biomaterials	https://doi.org/10.1016/j.biomaterials.2021.120856	2021	Ju, Huang, Liang, Zhang, Weichen, Zhou, Jingxue, Wang, Ruo, Zhang, Zhigang, Wang, Haitao, Ran, Pan, Li, Rui, Li	No
ROS-responsive liposomes with NIR light-triggered doxorubicin release for combinatorial therapy of breast cancer	Journal of Nanobiotechnology	https://doi.org/10.1186/s12951-021-00877-6	2021	Hanxi, Yi, Wangxing, Lu, Fan, Liu, Guoqing, Zhang, Feifan, Xie, Wenjie, Liu, Lei, Wang, Wenhu, Zhou, Zeneng, Cheng	No
Dual-Stimuli-Responsive Nanotheranostics for Dual-Targeting Photothermal-Enhanced Chemotherapy of Tumor	ACS Applied Materials & Interfaces	https://pubs.acs.org/doi/10.1021/acsami.1c03211	2021	Ting, He, Jin, He, Muhammad Rizwan, Younis, Nicholas Thomas, Blum, Shan, Lei, Yinling, Zhang, Peng, Huang, Jing, Lin	No

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Ultrastable AgBiS2Hollow Nanospheres with Cancer Cell-Specific Cytotoxicity for Multimodal Tumor Therapy	ACS Nano	https://doi.org/10.1021/acsnano.0c04370	2020	Benjin, Chen, Chenyang, Zhang, Wanni, Wang, Zhaoyou, Chu, Zhengbao, Zha, Xiaoyan, He, Wei, Zhou, Tao, Liu, Hua, Wang, Haisheng, Qian	No
Bruceantin targets HSP90 to overcome resistance to hormone therapy in castration-resistant prostate cancer	Theranostics	https://doi.org/10.7150/thno.51478	2020	Sue Jin, Moon, Byong Chang, Jeong, Hwa Jin, Kim, Joung Eun, Lim, Hye Jeong, Kim, Ghee Young, Kwon, Joshua A., Jackman, Jeong Hoon, Kim	No
Tumor Microenvironment Cascade-Responsive Nanodrug with Self-Targeting Activation and ROS Regeneration for Synergistic Oxidation-Chemotherapy	Nano-Micro Letters	https://doi.org/10.1007/s40820-020-00492-4	2020	Yang, Li, Jinyan, Lin, Peiyuan, Wang, Qiang, Luo, Fukai, Zhu, Yun, Zhang, Zhenqing, Hou, Xiaolong, Liu, Jingfeng, Liu	No
Opto-acoustic synergistic irradiation for vaporization of natural melanin-cored nanodroplets at safe energy levels and efficient sono-chemo-photothermal cancer therapy	Theranostics	https://doi.org/10.7150/thno.44879	2020	Yaxin, Hu, Shan, Xue, Ting, Long, Peizhao, Lyu, Xinyu, Zhang, Jingqin, Chen, Siping, Chen, Chengbo, Liu, Xin, Chen	No
Multiphase Assembly of Small Molecule Microcrystalline Peptide Hydrogel Allows Immunomodulatory Combination Therapy for Long-Term Heart Transplant Survival	Small	https://doi.org/10.1002/smll.202002791	2020	Poulami, Majumder, Yichuan, Zhang, Marcos, Iglesias, Lixin, Fan, James A., Kelley, Caroline, Andrews, Nimit, Patel, Jason R., Stagno, Byoung Chol, Oh, Georg J., Furtmüller, Christopher C., Lai, Yun Xing, Wang, Gerald, Brandacher, Giorgio, Raimondi, Joel P., Schneider	No
In vivo photoacoustic guidance of stem cell injection and delivery for regenerative spinal cord therapies	Neurophotonics	https://doi.org/10.1117/1.nph.7.3.030501	2020	Kelsey P., Kubelick, Stanislav Y., Emelianov	No
Photoacoustic imaging biomarkers for monitoring biophysical changes during nanobubble-mediated radiation treatment	Photoacoustics	https://doi.org/10.1016/j.pacs.2020.100201	2020	Eno, Hysi, Muhannad N., Fadhel, Yanjie, Wang, Joseph A., Sebastian, Anoja, Giles, Gregory J., Czarnota, Agata A., Exner, Michael C., Kolios	No
3D printed core-shell hydrogel fiber scaffolds with NIR-triggered drug release for localized therapy of breast cancer	International Journal of Pharmaceutics	https://doi.org/10.1016/j.ijpharm.2020.119219	2020	Xiaoyue, Wei, Chunyang, Liu, Zhiyong, Wang, Yongxiang, Luo	No
Intrinsically absorbing photoacoustic and ultrasound contrast agents for cancer therapy and imaging	Nanotechnology	http://dx.doi.org/10.1088/1361-6528/aadfbc	2018	Donald A., Fernandes, Michael C., Kolios	No
Therapy-educated mesenchymal stem cells enrich for tumor initiating cells	Cancer Research	http://cancerres.aacrjournals.org/lookup/doi/10.1158/0008-5472.CAN-17-1547	2018	Michael, Timaner, Nitzan, Letko-Khait, Ruslana, Kotsofruk, Madeleine, Benguigui, Ofrat, Beyar-Katz, Chen, Rachman-Tzemach, Ziv, Raviv, Tomer, Bronshtein, Marcelle, Machluf, Yuval, Shaked	No