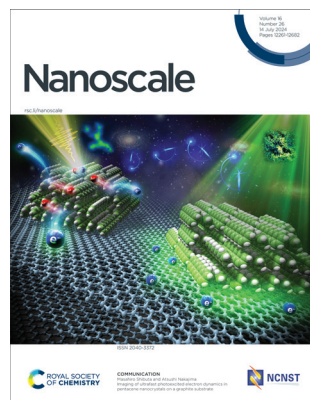


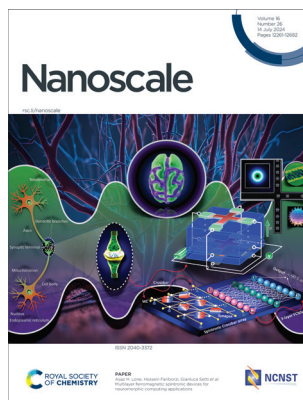
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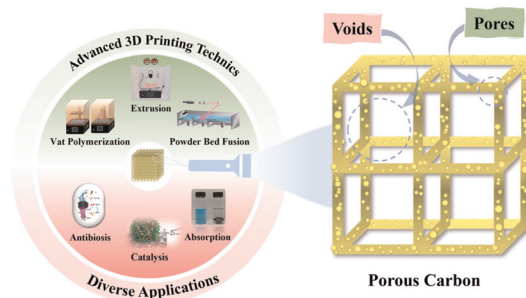
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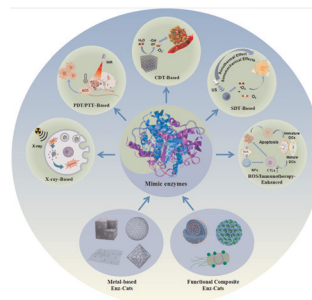
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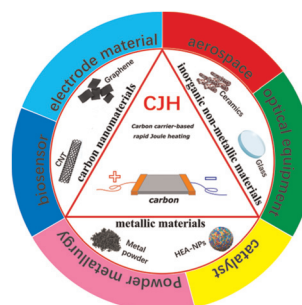
Fundamental questions
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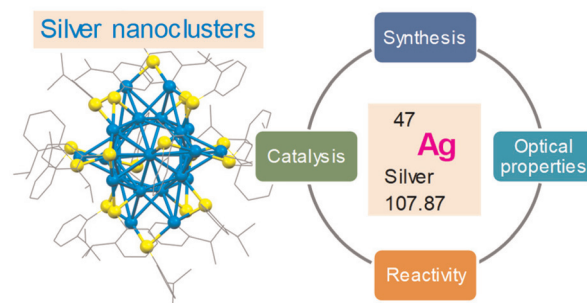


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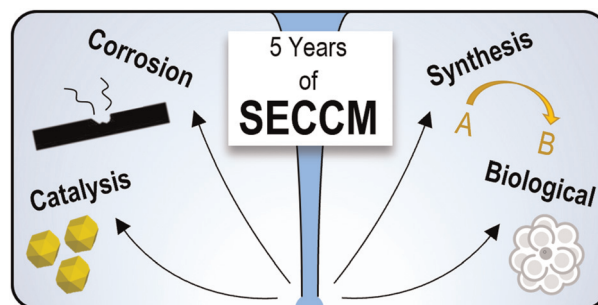
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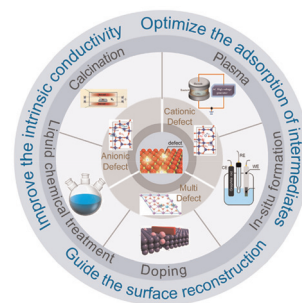
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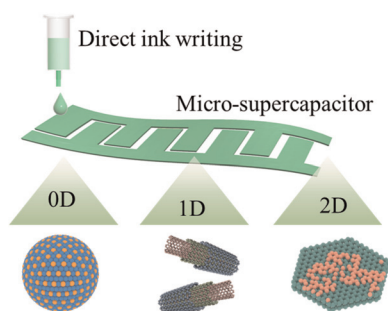
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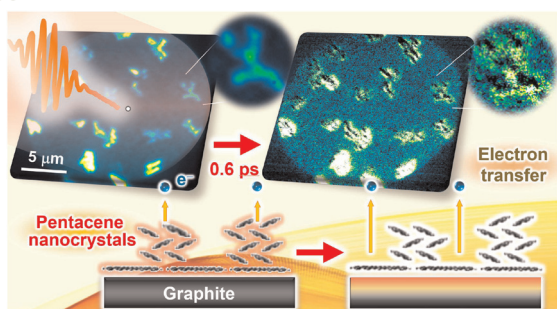


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Yanan Hou, Mutawara Mahmood Baig, Jingqi Lu, Hongcheng Zhang, Pin Liu, Guoyin Zhu,* Xinlei Ge, Huan Pang* and Yizhou Zhang*

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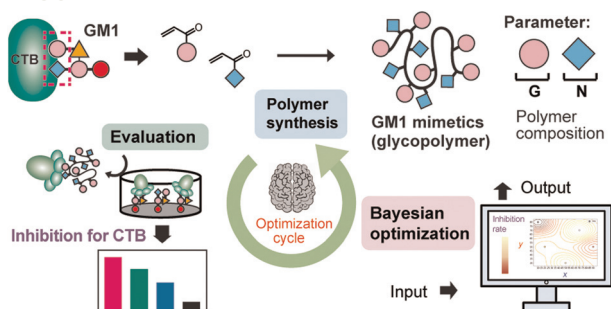
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Imaging of ultrafast photoexcited electron dynamics in pentacene nanocrystals on a graphite substrate

Masahiro Shibuta and Atsushi Nakajima*

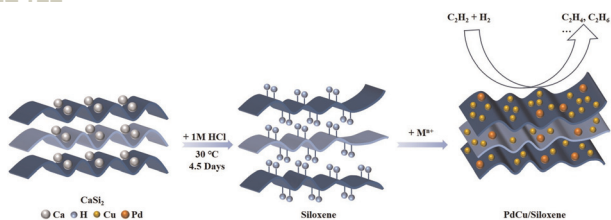
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Cu–Pd bimetal-decorated siloxene nanosheets for semi-hydrogenation of acetylene

Xinyi Pei, Dake Zhang, Rui Tang, Shenghua Wang, Chengcheng Zhang, Wentao Yuan and Wei Sun*

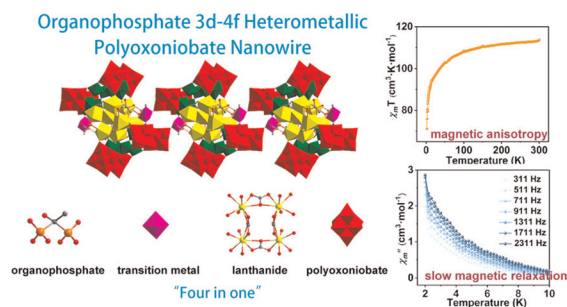


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An organophosphate 3d–4f heterometallic polyoxoniobate nanowire

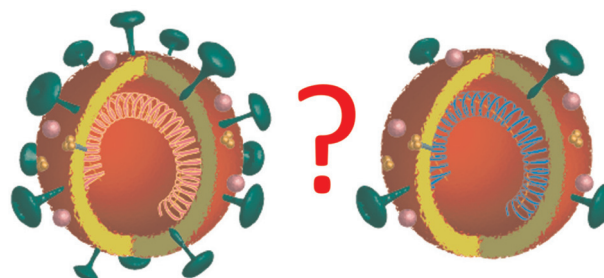
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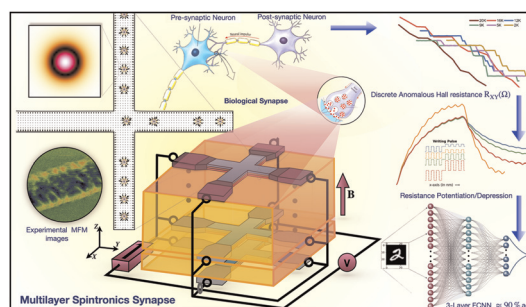


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Multilayer ferromagnetic spintronic devices for neuromorphic computing applications

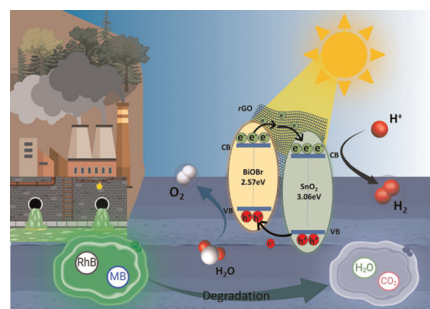
Aijaz H. Lone,* Xuecui Zou, Kishan K. Mishra, Venkatesh Singaravelu, R. Sbiaa, Hossein Fariborzi* and Gianluca Setti*



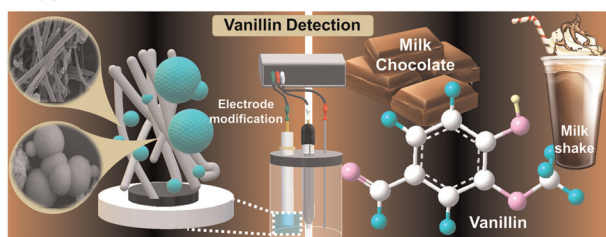
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A novel GO hoisted SnO₂–BiOBr bifunctional catalyst for the remediation of organic dyes under illumination by visible light and electrocatalytic water splitting

Manshu Dhillon, Abhishek Naskar, Neha Kaushal, Shekhar Bhansali, Avishek Saha and Aviru Kumar Basu*



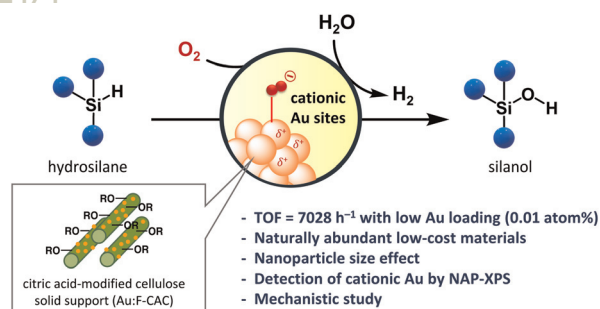
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Neodymium niobate nanospheres on functionalized carbon nanofibers: a nanoengineering approach for highly sensitive vanillin detection

I. Jenisha Daisy Priscilla and Sea-Fue Wang*

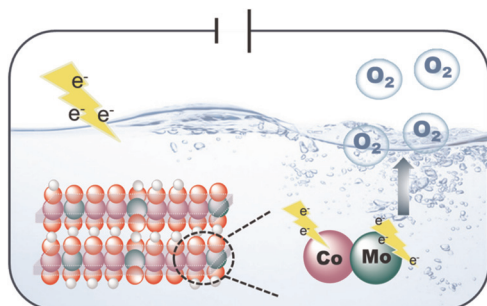
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Dehydrogenative oxidation of hydrosilanes using gold nanoparticle deposited on citric acid-modified fibrillated cellulose: unveiling the role of molecular oxygen

Butsaratip Suwattanaturuk, Yuta Uetake,* Rise Ichikawa, Ryo Toyoshima, Hiroshi Kondoh and Hidehiro Sakurai*

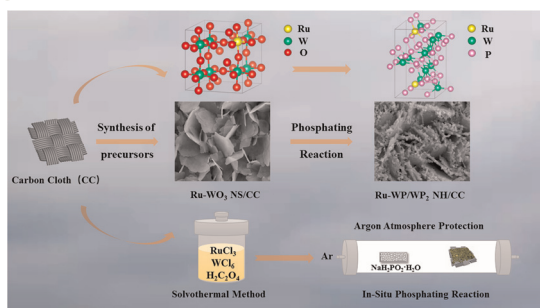
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Engineering high-valence metal-enriched cobalt oxyhydroxide catalysts for an enhanced OER under near-neutral pH conditions

Ruijing Dong, Jiajian Gao, Truong-Giang Vo, Shibo Xi, Choon Wee Kee, Xun Cao, Wei Chu* and Yan Liu*

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Ru doping and interface engineering synergistically boost the electrocatalytic performance of a WP/ WP₂ nanosheet array for an efficient hydrogen evolution reaction

Zhichang Hu, Zhizhong Xiao, Wei Wei, Jian Yang, Xiaoyu Huang, Qingcheng Lu, Sundaram Chandrasekaran, Huidan Lu* and Yongping Liu*

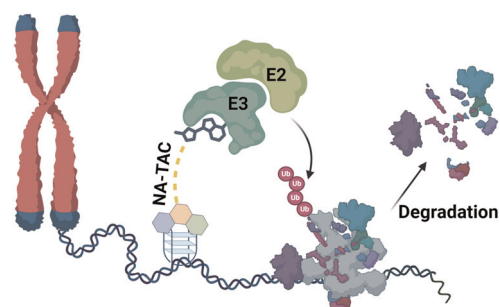


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Design and synthesis of nucleic acid nano-environment interactome-targeting small molecule PROTACs and their anticancer activity

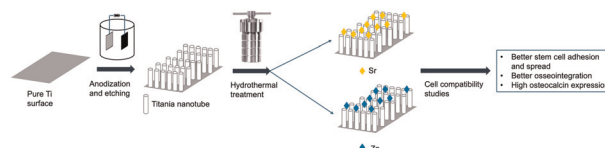
Sadiya Tanga, Arkadeep Karmakar, Arpita Hota, Paramita Banerjee and Basudeb Maji*



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Titania (TiO₂) nanotube surfaces doped with zinc and strontium for improved cell compatibility

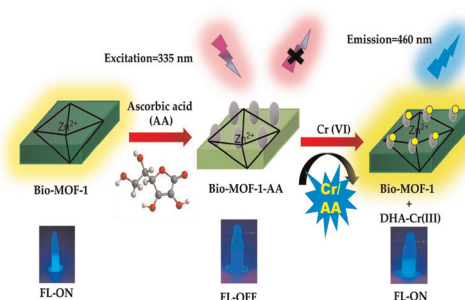
Abhishek Bhattacharjee, Bruno Pereira, Paulo Soares and Ketul C. Popat*



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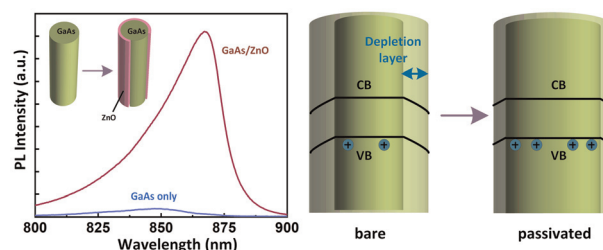
Gurjeet Kaur, Saloni Sharma, Neha Bhardwaj, Manoj K. Nayak* and Akash Deep*



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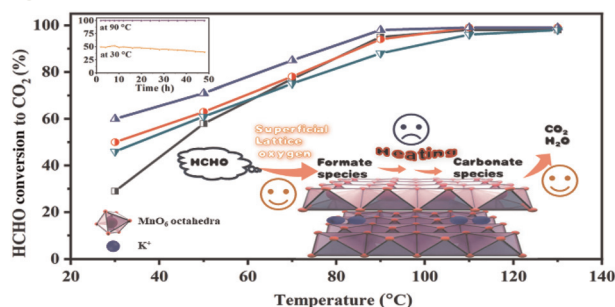
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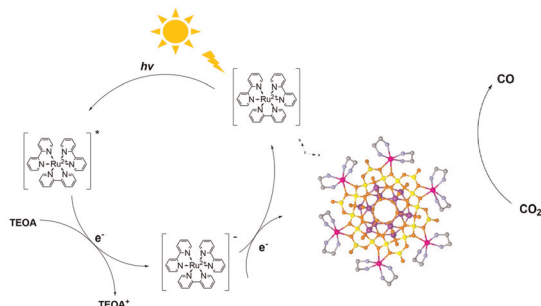
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Insights into the roles of superficial lattice oxygen in formaldehyde oxidation on birnessite

Zhaoxia Ma, Yongqi Li, Kongyuan Sun, Jahangeer Ahmed, Wei Tian* and Jinjia Xu*

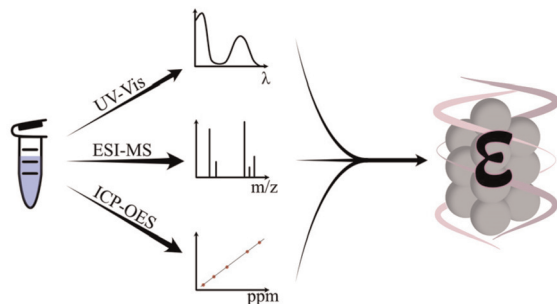
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Efficient reduction of CO₂ and inhibition of hydrogen precipitation by polyoxometalate photocatalyst modified with the metal Mn

Guifen Li, Yulan Gu, Rui Ren, Sitan Li,* Houen Zhu, Dongdong Xue, Xiangyi Kong, Ziyi Zheng, Nuo Liu, Bei Li* and Jiangwei Zhang*

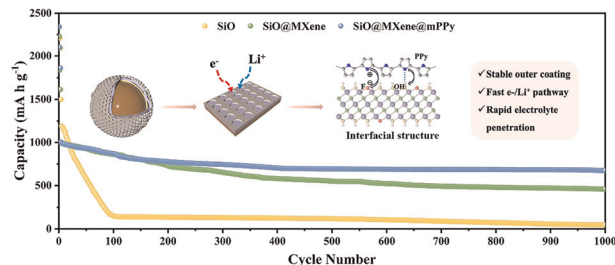
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Giacomo Romolini, Cecilia Cerretani,* Vanessa Rück, Mikkel Baldtzer Liisberg, Christian Brinch Mollerup and Tom Vosch*

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Porous hybrid encapsulation enables high-rate lithium storage for a micron-sized SiO anode

Xiaoyi Chen, Guanxia Zhu,* Xinlin Zhang, Dandan Luo, Zhongling Cheng and Haijiao Zhang*

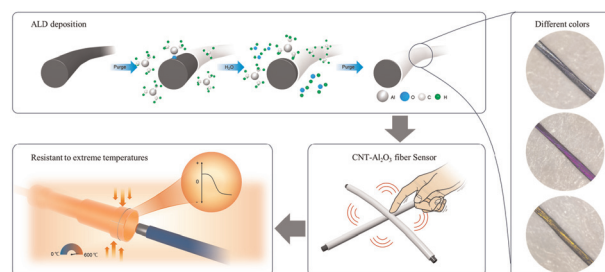


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A flexible precontact CNT-Al₂O₃ fiber sensor resistant to extreme temperatures

Xinghai Pan, Zisong Zhou, Yanling Liu, Yuhang Xiao, Sen Lin, Wei Pu and Haolun Wang*



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Multi-MXene assisted large-scale manufacturing of electrochemical biosensors based on enzyme-nanoflower enhanced electrodes for the detection of H₂O₂ secreted from live cancer cells

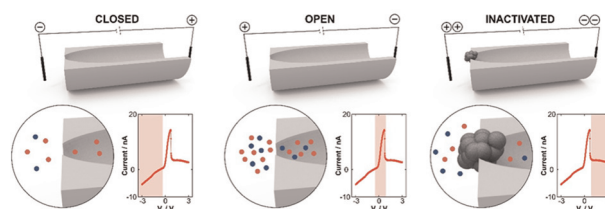
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Insight into the transport of ions from salts of moderated solubility through nanochannels: negative incremental resistance assisted by geometry

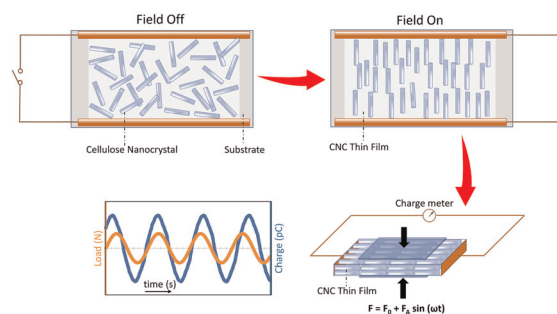
Gregorio Laucirica,* L. Miguel Hernández Parra, Angel L. Huamani, Michael F. Wagner, Alberto G. Albesa, María Eugenia Toimil-Molares, Waldemar Marmisollé* and Omar Azzaroni*



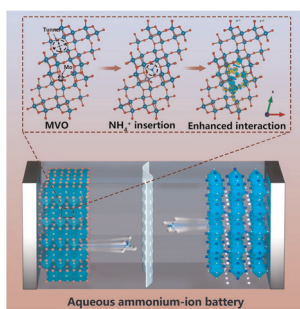
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Electric field-modulated evaporative thin film deposition of bio-particles for piezoelectric applications

Sameer Mhatre,* Xun Niu, Gio F. Bautista, Sajana Sumanasinghe and Orlando J. Rojas*



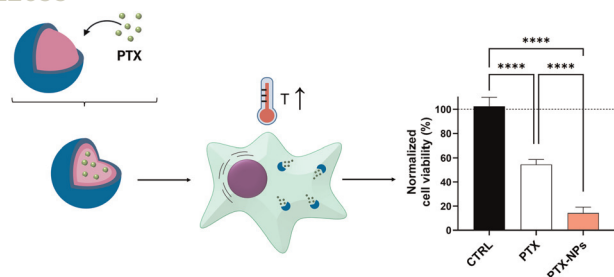
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Enhancing ammonium-ion storage in Mo-doped $\text{VO}_2(\text{B})$ nanobelt-bundles anode for aqueous ammonium-ion batteries

Long Chen, Jie Zhang, Zuoshu Wang and Dewei Wang*

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Zwitterionic nanoparticles for thermally activated drug delivery in hyperthermia cancer treatment

Camillo Colli, Ilenia Masi, Emanuela Jacchetti, Silvia Santoni, Mattia Sponchioni,* Bianca Maria Colosimo, Laura Rosanò, Manuela Teresa Raimondi, Emanuele Mauri* and Davide Moscatelli

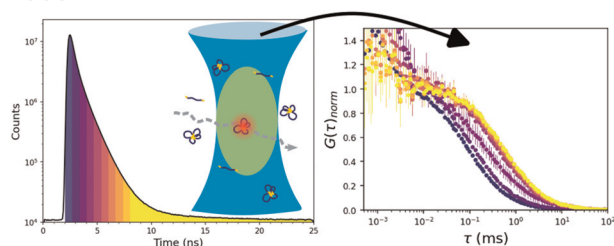
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Hydrostatic pressure-induced reversible phase transformation in iron oxide nanoparticles

Arkaprava Das,* Anumeet Kaur and Parwinder Kaur

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Han Wang, Xi Zhang, Hongyu Zhu and Gang Xiang*

