

# Journal of Materials Chemistry C

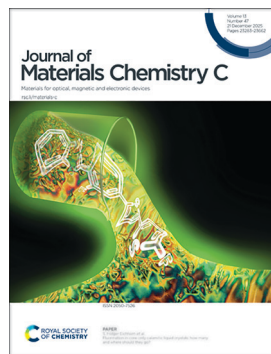
Materials for optical, magnetic and electronic devices

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### Inside cover

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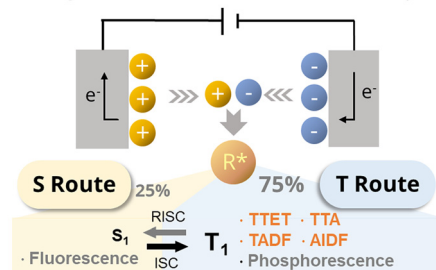
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Jiajia Gao, Badma Dylykov, Zelong Li, Sherwin Chong Li Tan, Yong Yu, Feng Liu, Veronica Gurung and Le Yang\*

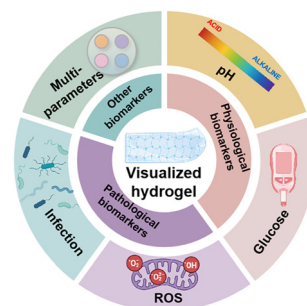
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### In situ visual monitoring strategies for wound healing based on hydrogel materials

Yufei Zhao, Huangshui Ma, Shaojingya Gao, Jinming Li,\* Qiang Sun\* and Rui Zhang\*



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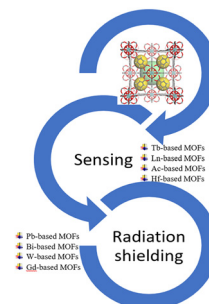


## REVIEWS

23337

**In situ degradation and radiation-responsive behavior of metal organic frameworks under high-energy irradiation: implications for sensing and shielding**

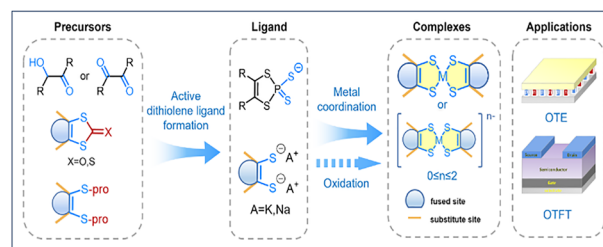
Godwin A. Udourioh, Samuel E. Egga and Moses M. Solomon\*



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Meiling Liu, Yunfeng Deng\* and Yanhou Geng

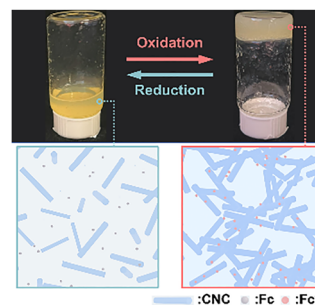


## COMMUNICATION

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**Redox-switchable gelation of unmodified cellulose nanocrystals**

Yota Neagari, Zongzhe Li and Mark J. MacLachlan\*

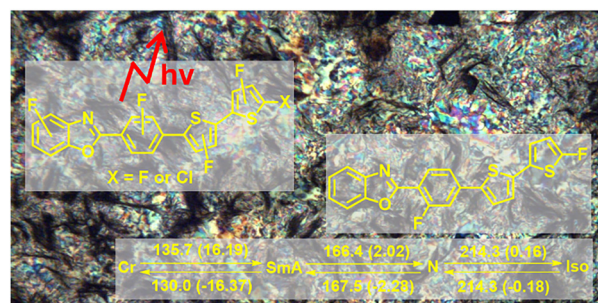


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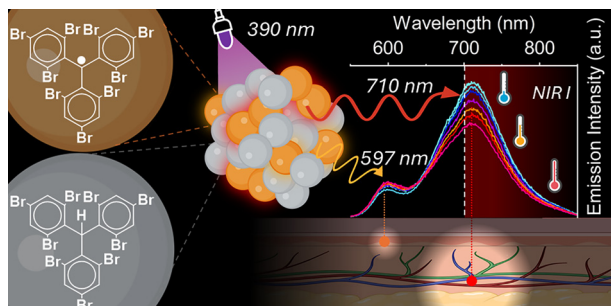
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Jacob G. Rothera, Reem Bazzi, Lara K. Watanabe, Jeremy M. Rawson, A. Mohan Raj, William G. Skene and S. Holger Eichhorn\*



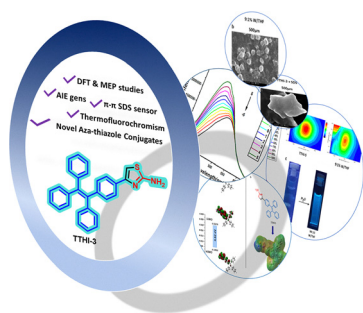
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### Brominated trityl radical nanoparticles: metal-free ratiometric nanothermometer with near-infrared excimeric emission in water

Nerea Gonzalez-Pato, Giovanni Schievano, Pau Armada, Jesús Cerdá, Davide Blasi, Juan Aragón, Jaime Veciana, Paula Mayorga-Burrezo\* and Imma Ratera\*

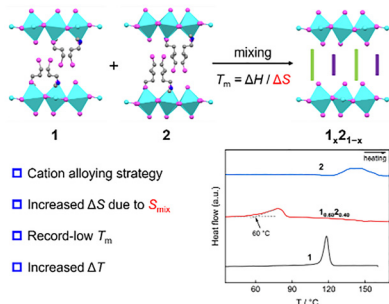
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Rameshbabu Ajaydev, Murugesan Preethi and Sivakumar Shanmugam\*

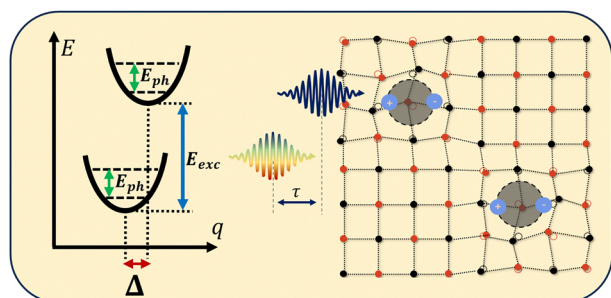
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### Alloying strategy enables record-low melting temperature in 2D metal halide perovskites

Fei-Yang Li, Cheng-Dong Liu, Wei Wang, Chang-Chun Fan, Shu-Yin Jia, Rui Zuo, Chao-Yang Chai\* and Wen Zhang\*

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### Structure–property relationships for exciton polarons in organic–inorganic hybrid materials

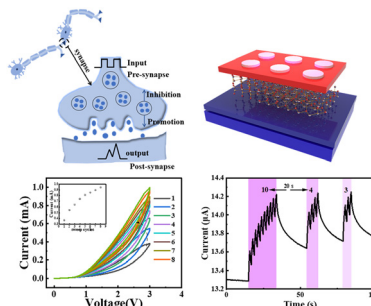
Katherine A. Koch, Martin Gomez-Dominguez, Esteban Rojas-Gatjens, Alexander Evju, K. Burak Ucer, Juan-Pablo Correa-Baena\* and Ajay Ram Srimath Kandada\*



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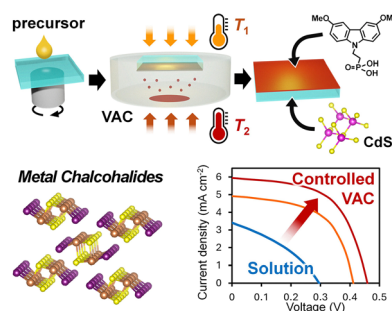
Shuangshuang Li, Yunjie Liu, Jiang Li, Fuhai Guo, Mingcong Zhang, Jianyu Jiang, AnKai Sun and Lanzhong Hao\*



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### A chemical vapor-assisted highly crystalized SbSI solar cell and a photodetector with bifacial passivation to mitigate the charge transport loss

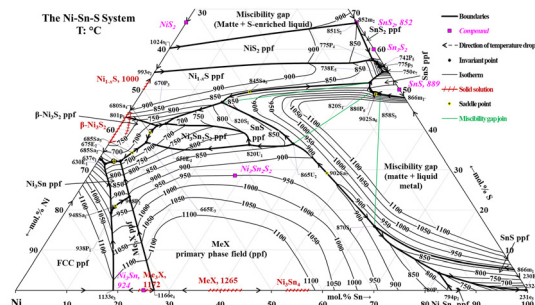
Shosuke Murayama, Ryosuke Nishikubo,\* Tai Kobayashi and Akinori Saeki\*



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### The experimental phase equilibria studies of the Ni–Sn–S system

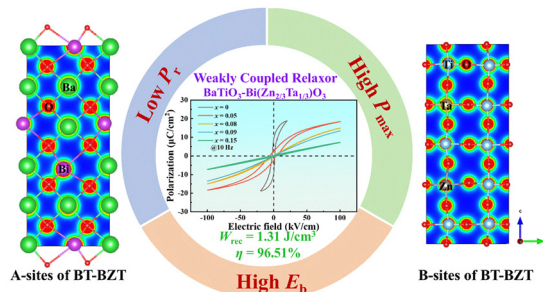
Modassir Akhtar,\* Maksym Shevchenko, Georgii Khartcyzov, Svetlana Sineva, Roman Starykh and Evgueni Jak



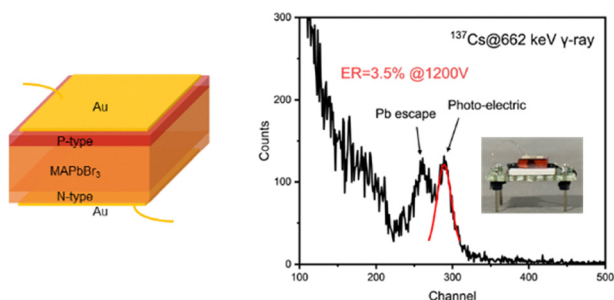
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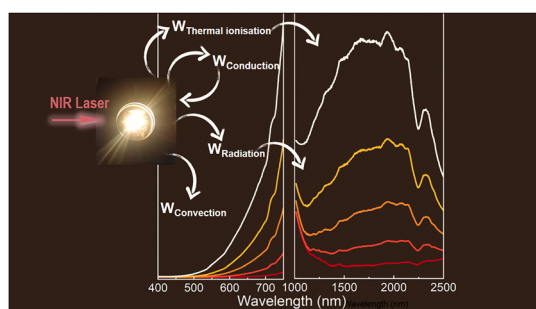
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Ziyi Liu, Xin Wang\* and Wei Lei\*

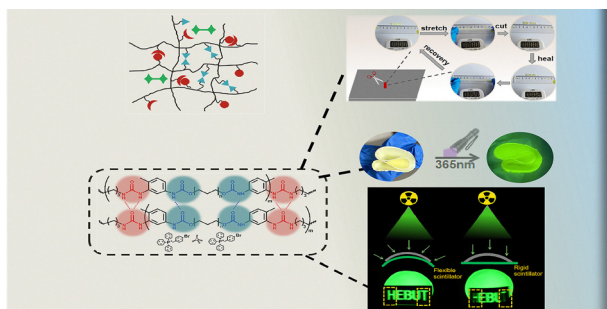
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Talita J. S. Ramos,\* Ágata Musialek, Robert Tomala and Wiesław Stręk

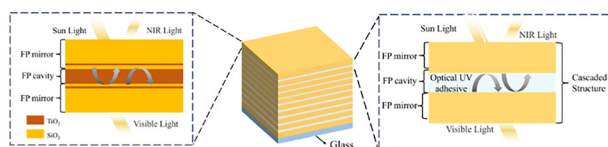
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Ranran Li, Di Zhao and Yige Wang\*

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### Structural design and performance evaluation of a high-transparency thermal insulation film suitable for multiple scenarios

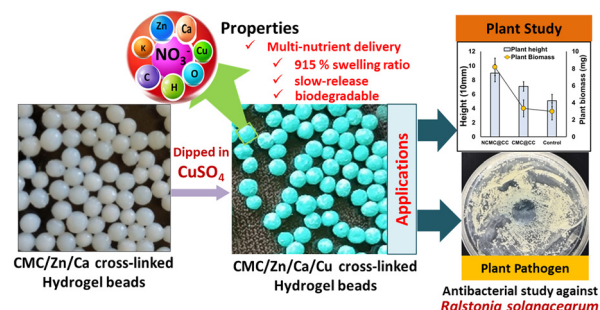
Zhe Zhang, Chao Zhang, Yuxiang Zhao, Hongyun Xing, Shihao Yang, Jianhua Ji, Wang Zhang\* and Wanlin Wang\*



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### Biodegradable CMC/Zn/Ca/Cu cross-linked novel superabsorbent hydrogel bead for plant pathogen prevention and agricultural applications

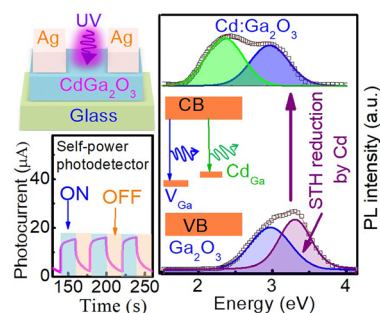
Madhusmita Baruah, Rimjim Gogoi, Tanmoy Karak, Sangita Bharali, Anurag Kashyap and Jiban Saikia\*



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### Cadmium defect-induced modulation of hole self-trapping in monoclinic gallium oxide for optoelectronic applications

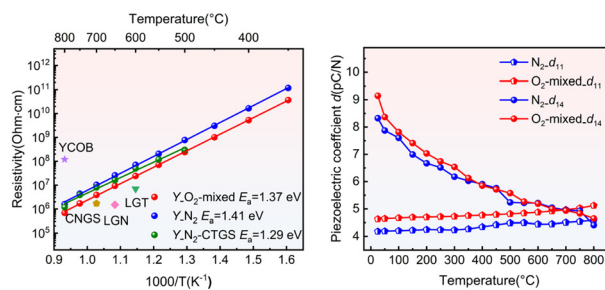
Tasfia Chowdhury, Rahima Khatun, Md. Rabiur Rahaman and M. Azizar Rahman\*



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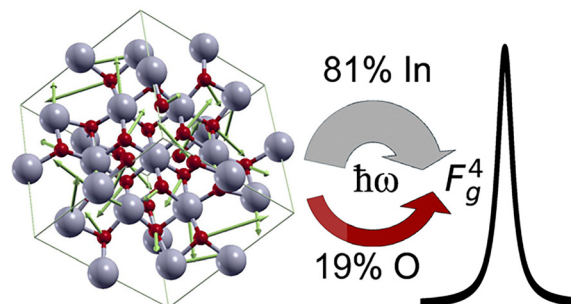
Dongyang Tian, Xiangkang Peng, Zijian Liu, Guoliang Wang, Yuzhen Li, Yanan Li and Fapeng Yu\*



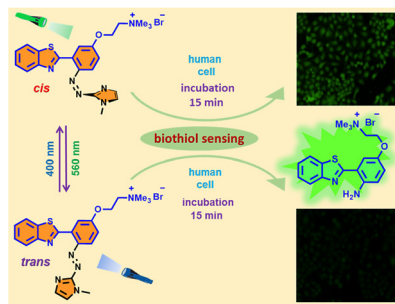
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Johannes Feldl, Roland Gillen, Janina Maultzsch, Alexandra Papadogianni, Joe Kler, Zbigniew Galazka, Oliver Bierwagen\* and Manfred Ramsteiner



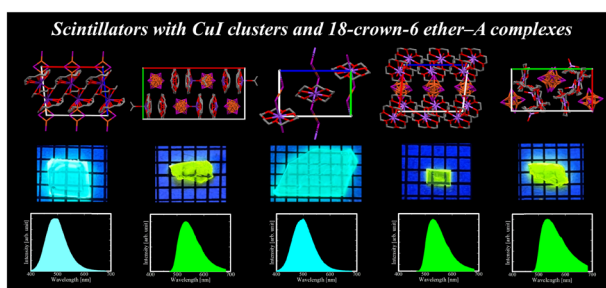
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### An arylazoimidazole-based photoswitchable probe allowing visible-light-triggered rapid detection and imaging of live-cell biothiols *via* fluorophore release

Sk Majid Box, Santosh Kumar Jana, Satyajit Bera, Supriya Bhunia, Sukhendu Mandal and Subhas Samanta\*

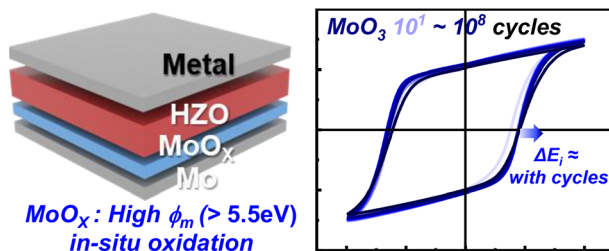
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### Development of organometallic single-crystal scintillators with CuI clusters and 18-crown-6 ether-alkali metal complexes

Keishi Yamabayashi,\* Kai Okazaki, Daisuke Nakauchi, Shohei Katao, Junko Kamikubo, Takumi Kato, Noriaki Kawaguchi and Takayuki Yanagida

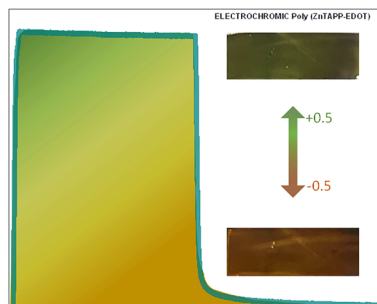
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### Interface engineering of oxidized Mo electrodes for imprint stability and enhanced endurance in hafnia-based ferroelectric devices

Junghyeon Hwang, Chaeheon Kim, Geonhyeong Kang, Yongsu Kim, Jinho Ahn\* and Sanghun Jeon\*

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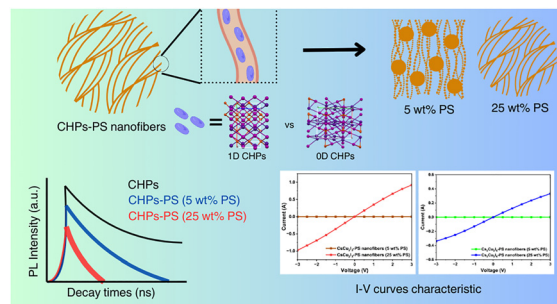
Sachin Kochrekar,\* Subrahmanyam Sappati, Plawan Kumar Jha, Ermei Mäkilä, Ashwini Jadhav, Pia Damlin, Mikko Salomäki and Carita Kvarnström\*



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### Optical and electrical characteristics of lead-free Cu-based halide perovskites in electrospun polystyrene nanofibers

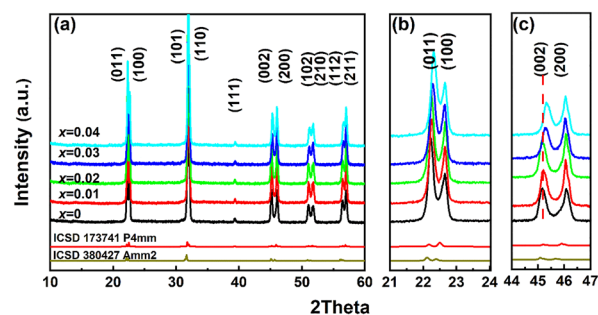
Vito Bintang Saputra, Tobias Haposan, Dominik Kowal, Pramudita Anindita Prakasa Tanaya, Wulan Chairunisa, Sri Hartati, Lei Zhang, Joko Suwardy, Nandang Mufti, Akmal Zulfi, Lina Jaya Diguna,\* Ismudiati Puri Handayani, Muhammad Danang Birowosuto, Witri Wahyu Lestari\* and Arramel Arramel\*



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### Promoting polar rotation *via* antimony doping to enhance the pyroelectric performance of lead-free potassium sodium niobate ceramics

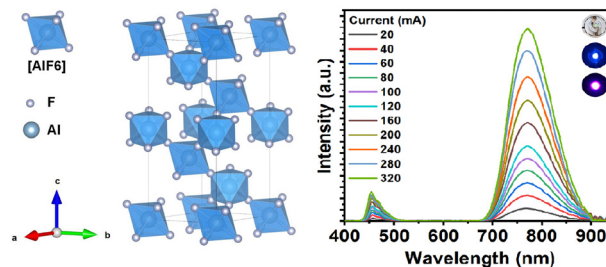
Cong Su, Hua Hao, Shangshu Li, Zhonghua Yao, Minghe Cao and Hanxing Liu\*



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### A novel $\text{AlF}_3:\text{Cr}^{3+}$ NIR phosphor with high thermal quenching stability for advanced pc-LEDs

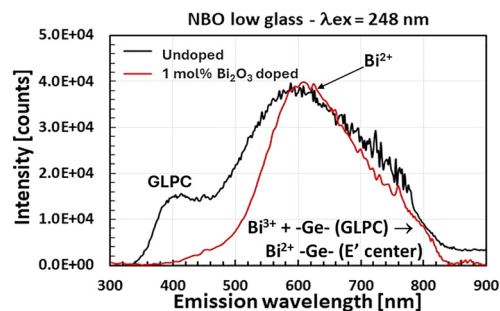
Wenqiang Li, Qihao Li, Yuehua Chen, Cailing Liu, Wenjing Zhong, Xiang Zhang, Yayun Zhou,\* Tingting Deng,\* Jiantao Lü and Ting Fan\*



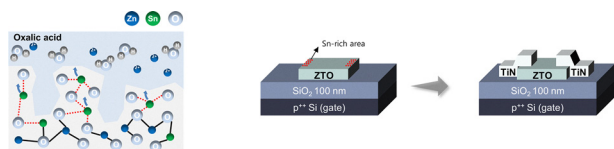
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### Bismuth-doped soda aluminogermanate glass part I: examination of the role of Na/Al atomic ratio on the glass matrix and bismuth luminescence properties in the 300–900 nm spectral range

Leanne J. Henry,\* Michael L. Klopfer, Joshua D. Reding and Kathleen A. Richardson



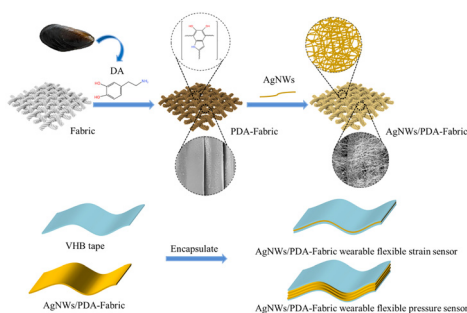
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Seo Young Jang, Jaewon Ham, Yonghee Lee, Sukin Kang, Sahngik Aaron Mun, Jinheon Choi, Juneseong Choi, Seoryong Park, Hyungjeung Kim and Cheol Seong Hwang\*

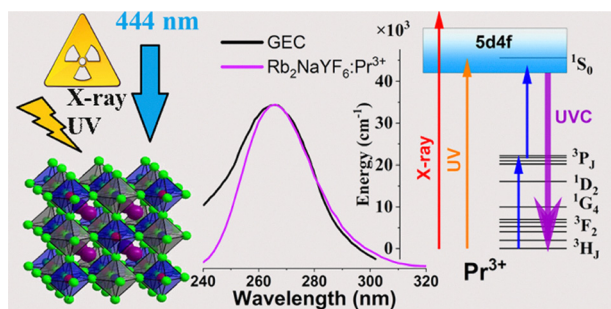
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### A mussel-inspired AgNWs/PDA-fabric multifunctional wearable flexible strain/pressure sensor for human motion detection

Lu Zhang,\* Yumin Tian, Lei Tian, JingQiu Sun and HaoYang Di

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Nadiia Rebrova,\* Alexander Grippa, Patrycja Zdeb-Stańczykowska, Aleksejs Zolotarjovs, Anatoli I. Popov and Przemysław J. Dereń

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Yuichi Hirai,\* Anna Wrona-Piotrowicz, Janusz Zakrzewski, Magdalena Ciechańska, Takahito Ohmura, Takashi Takeda, Takayuki Nakanishi, Rémi Métivier\* and Clémence Allain\*

