

# Journal of Materials Chemistry B

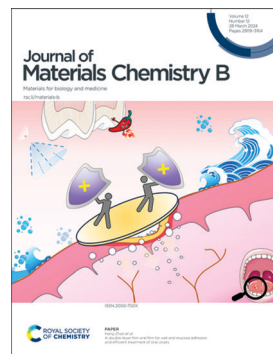
Materials for biology and medicine

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## IN THIS ISSUE

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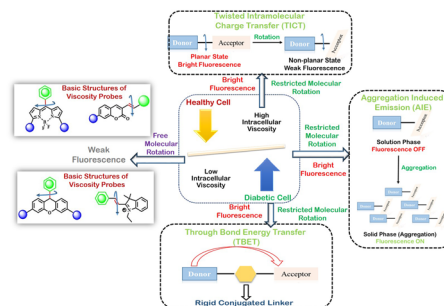
**Inside cover**  
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## REVIEWS

2917

### Mechanistic analysis of viscosity-sensitive fluorescent probes for applications in diabetes detection

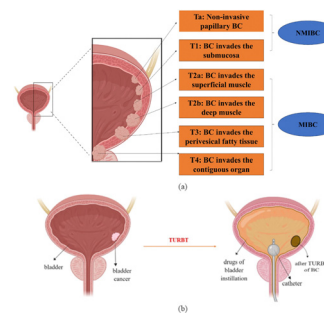
M. M. Sreejaya, Vineeth M Pillai, Ayesha A, Maanas Baby, Manoranjan Bera and Moumita Gangopadhyay\*



2938

### Hydrogel: a new material for intravesical drug delivery after bladder cancer surgery

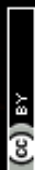
Yalong Wu, Xinquan Gu, Xiaoxi Chen, Yongliang Cui,\* Wei Jiang\* and Bin Liu\*



# RSC Applied Polymers

The application of polymers,  
both natural and synthetic

Interdisciplinary and open access



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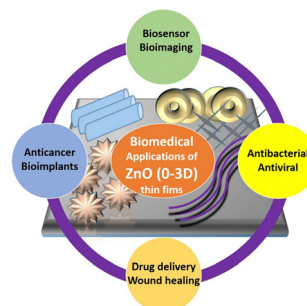
Fundamental questions  
Elemental answers

## REVIEWS

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**ZnO based 0–3D diverse nano-architectures, films and coatings for biomedical applications**

Suresh Babu Naidu Krishna, Jaroon Jakmunee, Yogendra Kumar Mishra and Jai Prakash\*

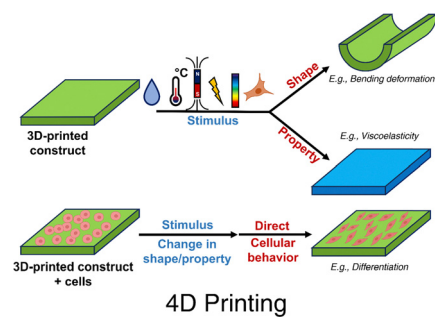


## PERSPECTIVE

2985

**4D printing for biomedical applications**

Arkodip Mandal and Kaushik Chatterjee\*

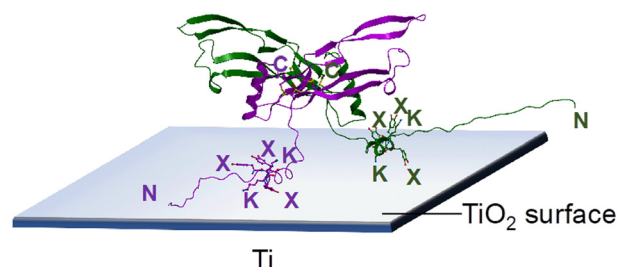


## COMMUNICATION

3006

**An osteoinductive surface by adhesive bone morphogenetic protein-2 prepared using the bioorthogonal approach for tight binding of titanium with bone**

Xueli Ren, Hironori Tsuji, Takahiko Uchino, Izumi Kono, Takashi Isoshima, Akimitsu Okamoto, Noriyuki Nagaoka, Toshifumi Ozaki, Akihiro Matsukawa, Hideyuki Miyatake\* and Yoshihiro Ito\*

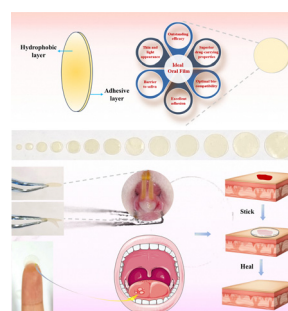


## PAPERS

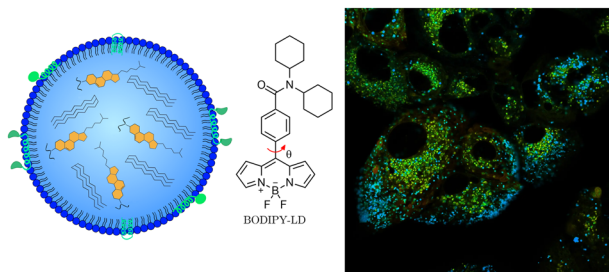
3015

**A double-layer thin oral film for wet oral mucosa adhesion and efficient treatment of oral ulcers**

Yujie Yan, Tiannan Liu, Xin Tian, Jiang Liu, Qianming Chen and Hang Zhao\*



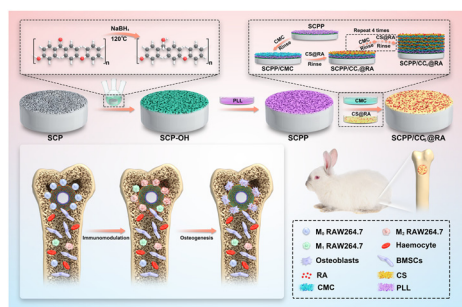
3022



### Bimodal effects on lipid droplets induced in cancer and non-cancer cells by chemotherapy drugs as revealed with a green-emitting BODIPY fluorescent probe

Artūras Polita,\* Rokas Žvirblis, Jelena Dodonova-Vaitkūnienė, Arun Prabha Shivabalan, Karolina Maleckaitė and Gintaras Valinčius

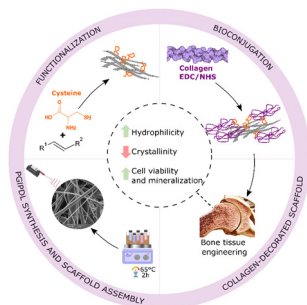
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### Construction of a layer-by-layer self-assembled rosemarinic acid delivery system on the surface of CFRPEEK implants for enhanced anti-inflammatory and osseointegration activities

Shanshan Zhao, Xingyu Zhou, Junbo Dang, Yilong Wang, Junhui Jiang, Tianhao Zhao, Dahui Sun, Chen Chen, Xin Dai, Yan Liu and Mei Zhang\*

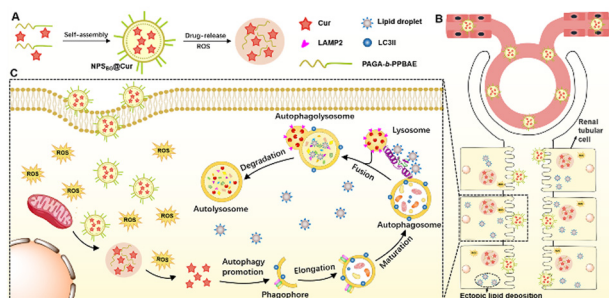
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### Collagen-decorated electrospun scaffolds of unsaturated copolyesters for bone tissue regeneration

Heloisa Bremm Madalosso, Camila Guindani, Bianca Chieragato Maniglia, Pedro Henrique Hermes de Araújo and Claudia Sayer\*

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### ROS-responsive curcumin-encapsulated nanoparticles for AKI therapy via promoting lipid degradation in renal tubules

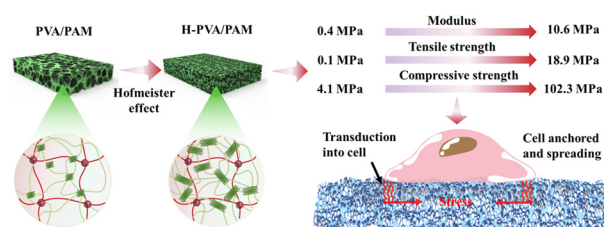
Honglei Guo, Tianyu Lan,\* Xin Lu, Kedui Geng, Xiangchun Shen, Huijuan Mao\* and Qianqian Guo\*



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### Strong, tough, and elastic poly(vinyl alcohol)/polyacrylamide DN hydrogels based on the Hofmeister effect for articular cartilage replacement

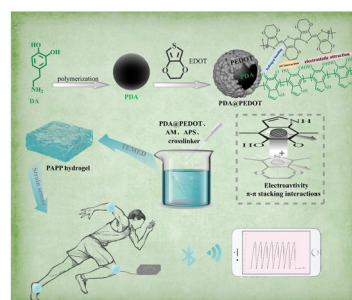
Cheng Yin, Zhiwu Huang, Yunge Zhang, Kaijing Ren, Songtao Liu, Honglin Luo, Quanchao Zhang\* and Yizao Wan\*



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### Mussel-inspired PDA@PEDOT nanocomposite hydrogel with excellent mechanical strength, self-adhesive, and self-healing properties for a flexible strain sensor

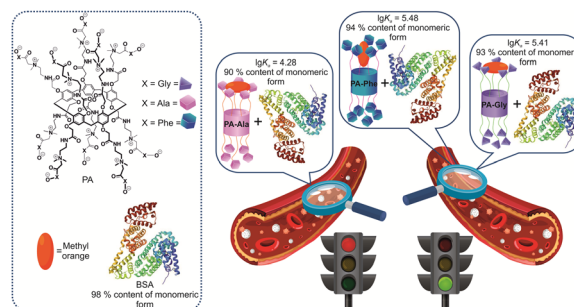
Xiaoyi Li, Xueshan Zhao, Ruiqi Liu, Hui Wang, Shuang Wang, Bing Fan, Chenggong Hu\* and Haibo Wang



3103

### Pillar[5]arene/albumin biosupramolecular systems for simultaneous native protein preservation and encapsulation of a water-soluble substrate

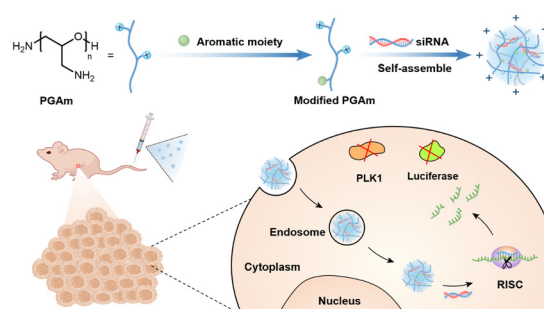
Vildan Sultanaev,\* Luidmila Yakimova,\* Anastasia Nazarova, Igor Sedov, Olga Mostovaya, Timur Mukhametzyanov, Damir Davletshin, Daria Takuntseva, Elvina Gilyazova, Emil Bulatov and Ivan Stoikov\*



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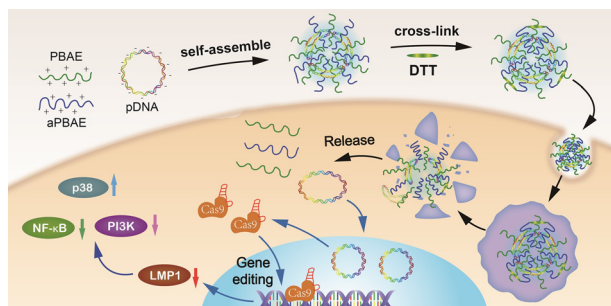
### Novel aromatic moieties-modified poly(glycidyl amine)s with potent siRNA delivery and cancer treatment effect

Qi Shuai, Wanxuan Xie, Siyuan Chen, Huahui Su and Yunfeng Yan\*



## PAPERS

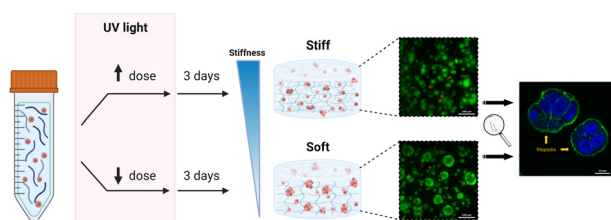
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### Post cross-linked ROS-responsive poly( $\beta$ -amino ester)-plasmid polyplex NPs for gene therapy of EBV-associated nasopharyngeal carcinoma

Caiyan Yuan, Shuangyan Chang, Chong Zhang, Dirong Dong, Jiahui Ding, Ali Reza Mahdavian, Zheng Hu, Lili Sun\* and Songwei Tan\*

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### Evaluation of gelatin-based hydrogels for colon and pancreas studies using 3D *in vitro* cell culture

Regina Pamplona, Sandra González-Lana, Ignacio Ochoa, Rafael Martín-Rapún\* and Carlos Sánchez-Somolinos\*

## EXPRESSION OF CONCERN

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### Expression of Concern: Surface modification of intraocular lenses *via* photodynamic coating for safe and effective PCO prevention

Junmei Tang, Sihao Liu, Yuemei Han, Rui Wang, Jiayi Xia, Hao Chen\* and Quankui Lin\*

