
Publications in Peer-Reviewed Journals

- 79) Mixed-valence superstructure assembled from a mixed-valence host–guest complex
*Z. Liu, * M. Frascioni, W.-G. Liu, Y. Zhang, S. M. Dyar, D. Shen, A. A. Sarjeant, W. A. Goddard III, M. R. Wasielewski, J. F. Stoddart**
Journal of the American Chemical Society 2018, *140*, 9387–9391
- 78) Photo-responsive graphene and carbon nanotubes to control and tackle biological systems (*review*)
*F. Cardano, M. Frascioni, * S. Giordani**
Frontiers in Chemistry 2018, *6*, article n. 102
- 77) Internalization of carbon nano-onions by hippocampal cells preserves neuronal circuit function and recognition memory
*M. Trusel, M. Baldrighi, R. Marotta, F. Gatto, M. Pesce, M. Frascioni, T. Catelani, F. Papaleo, P. P. Pompa, R. Tonini, * S. Giordani**
ACS Applied Materials & Interfaces 2018, *10*, 16952–16963
- 76) Introducing stable radicals into molecular machines (*review*)
*Y. Wang, M. Frascioni, J. F. Stoddart**
ACS Central Science 2017, *3*, 927–935
- 75) Ion pair formation between tertiary aliphatic amines and perchlorate in the biphasic water/dichloromethane system
*D. Badocco, V. Di Marco, A. Venzo, M. Frascioni, D. Frezzato, P. Pastore**
Journal of Physical Chemistry B 2017, *121*, 9403–9410
- 74) Porous graphite oxide pillared with tetrapod-shaped molecules
*J. Sun, F. Morales-Lara, A. Klechikova, A. V. Talyzin, * I. A. Baburin, G. Seifert, F. Cardano, M. Baldrighi, M. Frascioni, * S. Giordani**
Carbon 2017, *120*, 145–156
- 73) Surface plasmon resonance in gold nanoparticles: a review (*review*)
*V. Amendola, * R. Pilot, M. Frascioni, O. M. Maragò, M. A. Iati*
Journal of Physics: Condensed Matter 2017, *29*, 203002
- 72) Sliding-ring catenanes
*I. R. Fernando, M. Frascioni, Y. Wu, W.-G. Liu, M. R. Wasielewski, W. A. Goddard III, J. F. Stoddart**
Journal of the American Chemical Society 2016, *138*, 10214–10225
- 71) Influence of constitution and charge on radical pairing interactions in triradical tricationic complexes
*C. Cheng, T. Cheng, H. Xiao, M. D. Krzyaniak, Y. Wang, P. R. McGonigal, M. Frascioni, J. C. Barnes, A. C. Fahrenbach, M. R. Wasielewski, W. A. Goddard III, J. F. Stoddart**
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- 70) Oligorotaxane radicals under orders
*Y. Wang, M. Frasconi, W.-G. Liu, J. Sun, Y. Wu, M. S. Nassar, Y. Y. Botros, W. A. Goddard III, M. R. Wasielewski, J. F. Stoddart**
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- 69) Quantum mechanical and experimental validation that cyclobis(paraquat-p-phenylene) forms a 1:1 inclusion complex with tetrathiafulvalene
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- 68) Ultrafast photoinduced symmetry-breaking charge separation and electron sharing in perylene-diimide molecular triangles
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- 67) Multi-functionalized carbon nano-onions as imaging probes for cancer cells
*M. Frasconi, R. Marotta, L. Markey, K. Flavin, V. Spampinato, G. Ceccone, L. Echegoyen, E. M. Scanlan, S. Giordani**
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- 66) Highly surface functionalized carbon nano-onions for bright light bioimaging
*M. Frasconi, V. Maffei, J. Bartelmess, L. Echegoyen, S. Giordani**
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*M. Frasconi, I. R. Fernando, Y. Wu, Z. Liu, W.-G. Liu, S. M. Dyar, G. Barin, M. R. Wasielewski, W. A. Goddard III, J. F. Stoddart**
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- 64) Non-covalent functionalization of carbon nano-onions with pyrene-BODIPY dyads for biological imaging
*J. Bartelmess,[†] M. Frasconi,[†] P. B. Balakrishnan, A. Signorelli, L. Echegoyen, T. Pellegrino, S. Giordani**
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- 63) Complexation of polyoxometalates with cyclodextrins
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- 62) Esterase- and pH-responsive poly(β -amino ester)-capped mesoporous silica nanoparticles for drug delivery
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- 61) Folding of oligoviologens induced by radical-radical interactions
*Y. Wang, M. Frasconi, W.-G. Liu, Z. Liu, A. A. Sarjeant, M. S. Nassar, Y. Y. Botros, W. A. Goddard III, J. F. Stoddart**
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- 60) Formation of ring-in-ring complexes between crown ethers and rigid TVBox⁸⁺
*J. Sun, M. Frasconi, Z. Liu, J. C. Barnes, Y. Wang, D. Chen, C. L. Stern, J. F. Stoddart**
Chemical Communications 2015, *51*, 1432–1435
- 59) Controlling association kinetics in the formation of donor-acceptor pseudorotaxanes
*P. R. McGonigal, H. Li, C. Cheng, S. T. Schneebeli, M. Frasconi, L. S. Witus, J. F. Stoddart**
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M. D. Yilmaz, M. Xue, M. W. Ambrogio, O. Buyukcakir, Y. Wu, M. Frasconi, X. Chen, M. S. Nassar, J. F. Stoddart, J. I. Zink**
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- 56) NIR fluorescence labelled carbon nano-onions; synthesis, analysis and cellular imaging
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- 54) Solid-state characterization and photoinduced intramolecular electron transfer in a nanoconfined octacationic homo[2]catenane
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M. D. Yilmaz, T. Aytun, M. Frasconi, S. I. Stupp, J. F. Stoddart**
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*H. Li, C. Cheng, P. R. McGonigal, A. C. Fahrenbach, M. Frasconi, W.-G. Liu, Z. Zhu, Y. Zhao, C. Ke, J. Lei, R. M. Young, S. M. Dyar, D. T. Co, Y.-W. Yang, Y. Y. Botros, W. A. Goddard III, M. R. Wasielewski, R. D. Astumian, J. F. Stoddart**
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M. Frasconi, Z. Liu, J. Lei, Y. Wu, E. Strelakova, D. Malin, M. W. Ambrogio, X. Chen, Y. Y. Botros, V. L. Cryns, J.-P. Sauvage,* J. F. Stoddart**
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*M. W. Ambrogio, M. Frasconi, D. M. Yilmaz, X. Chen**
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A. A. Bagabas, M. Frasconi, J. Iehl, B. Hauser, O. K. Farha, J. T. Hupp, K. J. Hartlieb, Y. Y. Botros, J. F. Stoddart**
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- 42) Selective isolation of gold facilitated by second-sphere coordination with α -cyclodextrin
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*J. Iehl, M. Frasconi, H.-P. Jacquot de Rouville, N. Renaud, S. M. Dyar, N. L. Strutt, R. Carmieli, M. R. Wasielewski, M. A. Ratner, J.-F. Nierengarten, J. F. Stoddart**
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*J. J. Gassensmith, P. M. Erne, W. F. Paxton, M. Frasconi, M. D. Donakowski, J. F. Stoddart**
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- 39) A radically configurable six-state compound
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*G. Barin,[†] M. Frasconi,[†] S. M. Dyar, J. Iehl, O. Buyukcakir, A. A. Sarjeant, R. Carmieli, A. Coskun, M. R. Wasielewski, J. F. Stoddart**
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Patents

1) Compounds and methods to isolate gold

J. Fraser Stoddart, Zhichang Liu, Marco Frasconi, Dennis Cao

No. WO2014172667, US Patent No. US, 9 399 803 B2

Publication date: 26/07/2016

2) Redox active triangular organic materials

J. Fraser Stoddart, Severin T. Schneebeli, Zhichang Liu, Marco Frasconi

US Patent No. US, 9 546 169 B2

Publication date: 17/01/2017

3) Viologen-based rotaxane

J. Fraser Stoddart, Yuping Wang, Marco Frasconi, Junling Sun

US Patent Application No. US 2017/0218135 A1

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