
Publications in Peer-Reviewed Journals

- 80) The neighboring component effect in a tristable [2]rotaxane
*Y. Wang, T. Cheng, J. Sun, Z. Liu, M. Frascioni, W. A. Goddard, J. F. Stoddart**
Journal of the American Chemical Society 2018, *140*, 13827–13834
- 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 trisradical tricationic complexes
*C. Cheng, T. Cheng, H. Xiao, M. D. Krzyaniak, Y. Wang, P. R. McGonigal, M. Frasconi, 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**
ACS Central Sciences 2016, *2*, 89–98
- 69) Quantum mechanical and experimental validation that cyclobis(paraquat-p-phenylene) forms a 1:1 inclusion complex with tetrathiafulvalene
K. J. Hartlieb, W.-G. Liu, A. C. Fahrenbach, A. K. Blackburn, M. Frasconi, N. Hafezi, S. K. Dey, A. A. Sarjeant, C. L. Stern, W. A. Goddard III, J. F. Stoddart**
Chemistry – A European Journal 2016, *22*, 2736–2745
- 68) Ultrafast photoinduced symmetry-breaking charge separation and electron sharing in perylene diimide molecular triangles
Y. Wu, R. M. Young, M. Frasconi, S. T. Schneebeli, P. Spenst, D. M. Gardner, K. E. Brown, F. Würthner, J. F. Stoddart,* M. R. Wasielewski**
Journal of the American Chemical Society 2015, *137*, 13236–13239
- 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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- 65) Redox control of the binding modes of an organic receptor
*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
*I. R. Fernando, D. P. Ferris, M. Frasconi, D. Malin, E. Strelakova, M. D. Yilmaz, M. W. Ambrogio, M. M. Algaradah, M. P. Hong, X. Chen, M. S. Nassar, Y. Y. Botros, V. L. Cryns, J. F. Stoddart**
Nanoscale 2015, *7*, 7178–7183

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*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. Buyukcakil, Y. Wu, M. Frasconi, X. Chen, M. S. Nassar, J. F. Stoddart, J. I. Zink**
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- 57) Energetically demanding transport in a supramolecular assembly
*C. Cheng, P. R. McGonigal, W.-G. Liu, H. Li, N. A. Vermeulen, C. Ke, M. Frasconi, C. L. Stern, W. A. Goddard III, J. F. Stoddart**
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Journal of the American Chemical Society 2014, *136*, 11011–11026
 (Featured in **JACS Spotlights**)
- 54) Solid-state characterization and photoinduced intramolecular electron transfer in a nanoconfined octacationic homo[2]catenane
*J. C. Barnes, M. Frasconi, Y. M. Ryan, N. H. Khadry, W.-G. Liu, S. M. Dyar, P. R. McGonigal, I. C. Gibbs-Hall, A. A. Sarjeant, C. L. Stern, W. A. Goddard III, M. R. Wasielewski, J. F. Stoddart**
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- 52) Relative contractile motion of the rings in a switchable palindromic [3]rotaxane in aqueous solution driven by radical-pairing interactions
*L. S. Witus, K. J. Hartlie, Y. Wang, A. Prokofjevs, M. Frasconi, J. C. Barnes, E. J. Dale, A. C. Fahrenbach, J. F. Stoddart**
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*Z. Liu, J. Lei, M. Frasconi, X. Li, D. Cao, Z. Zhu, S. T. Schneebeli, G. C. Schatz, J. F. Stoddart**
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- 50) Photocurrent generation from a low band-gap and green BODIPY-based electrochromic polymer
*M. D. Yilmaz, T. Aytun, M. Frasconi, S. I. Stupp, * J. F. Stoddart**
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*C. J. Bruns, M. Frasconi, J. Iehl, K. J. Hartlieb, S. T. Schneebeli, C. Cheng, S. I. Stupp, * J. F. Stoddart **
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*C. J. Bruns, J. Li, M. Frasconi, S. T. Schneebeli, J. Iehl, H.-P. Jacquot de Rouville, S. I. Stupp, G. A. Voth, * 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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*S. T. Schneebeli,[†] M. Frasconi,[†] Z. Liu, Y. Wu, D. M. Gardner, N. L. Strutt, C. Cheng, R. Carmieli, M. R. Wasielewski, * J. F. Stoddart**
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 (Published as back **Cover Article**)
- 45) Photoexpulsion of surface-grafted ruthenium complexes and subsequent release of cytotoxic cargos to cancer cells from mesoporous silica nanoparticles
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*M. W. Ambrogio, M. Frasconi, D. M. Yilmaz, X. Chen**
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- 43) γ -Cyclodextrin cuprate sandwich-type complexes
*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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- 41) π -Dimerization of viologen subunits around the core of C₆₀ from twelve to six directions
*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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- 40) Patterned assembly of quantum dots onto surfaces modified with click microcontact printing
*J. J. Gassensmith, P. M. Erne, W. F. Paxton, M. Frasconi, M. D. Donakowski, J. F. Stoddart**
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*J. C. Barnes, A. C. Fahrenbach, S. M. Dyar, M. Frasconi, M. A. Giesener, Z. Zhu, Z. Liu, K. J. Hartlieb, R. Carmieli, M. R. Wasielewski, J. F. Stoddart**
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- 21) Protein immobilization at gold-thiol surfaces and potential for biosensing (*review*)
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T. Ferri, M. Frasconi*
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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

Publication date: 03/08/2017

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