

List of Publications of Éva Jakab Tóth

Peer reviewed papers

1. É. Tóth and E. Brücher
Stability Constants of the Lanthanide(III)-1,4,7,10-tetraazacyclododecane-N,N',N'',N'''-tetraacetate Complexes
Inorg. Chim. Acta **1994**, 221, 165.
1. É. Tóth, E. Brücher, I. Lázár and I. Tóth
Kinetics of Formation and Dissociation of Lanthanide(III)-DOTA Complexes
Inorg. Chem. **1994**, 33, 4070.
1. É. Tóth, R. Király, J. Platzek, B. Radüchel and E. Brücher
Equilibrium and Kinetic Studies on Complexes of 10[2,3-Dihydroxy-(1-hydroxymethyl)-Propyl]-1,4,7,10-Tetraazacyclo-dodecane-1,4,7-Triacetate
Inorg. Chim. Acta, **1996**, 249, 191.
1. A.D. Sherry, J. Ren, J. Huskens, E. Brücher, É. Tóth, C.F.C.G. Geraldes, M.M.C.A. Castro, and W.P. Chacheris
Characterization of Lanthanide(III) DOTP Complexes: Thermodynamics, Protonation, and Coordination to Alkali Metal Ions
Inorg. Chem. **1996**, 35, 4604.
1. É. Tóth, S. Vauthey, D. Pubanz and A. E. Merbach
Water Exchange and Rotational Dynamics of the Dimeric Gadolinium(III) Complex [BO{Gd(DO3A)(H₂O)}₂]: A Variable-Temperature and -Pressure ¹⁷O NMR Study
Inorg. Chem. **1996**, 35, 3375.
6. É. Tóth, D. Pubanz, S. Vauthey, L. Helm, and A. E. Merbach
The Role of Water Exchange in Attaining Maximum Relaxivities for Dendrimeric MRI Contrast Agents
Chem. Eur. J. **1996**, 2, 1607.
7. L. Burai, V. Hietapelto, R. Király, É. Tóth and E. Brücher
Stability Constants and ¹H Relaxation Effects of Ternary Complexes Formed between Gd(DTPA), Gd(DTPA-BMA), Gd(DOTA) and Gd(EDTA) and Citrate, Phosphate, and Carbonate Ions
Magn. Res. Med. **1997**, 38, 146.
8. É. Tóth, L. Burai, E. Brücher and A. E. Merbach
Tuning water-exchange rates on (carboxymethyl)iminobis-(ethylenitrilo)tetraacetate (dtpa)-type gadolinium(III) complexes
J. Chem. Soc. Dalton Trans. **1997**, 1587.
9. A. Borel, I. van Uffelen, L. Helm, É. Tóth and A. E. Merbach
Développement d'agents de contraste de haute relaxivité pour l'Imagerie par Résonance Magnétique

10. É. Tóth, I. van Uffelen, L. Helm, A. E. Merbach, A.E., D. Ladd, K. Briley-Saebo and K. Kellar
Gadolinium-based linear polymer with temperature-independent proton relaxivities: a unique interplay between the water exchange and rotational contributions
Magn. Res. Chem. **1998**, 36 :S125.
11. É. Tóth, L. Helm, A. E. Merbach, R. Hedinger, K. Hegetschweiler and A. Jánossy
Structure and Dynamics of a Trinuclear Gadolinium(III) Complex: The Effect of Intramolecular Electron Spin Relaxation on Its Proton Relaxivity
Inorg. Chem. **1998**, 37, 4104.
12. É. Tóth and A. E. Merbach
Water exchange dynamics: The key for high relaxivity contrast agents in medical resonance imaging
ACH, Models in Chemistry, **1998**, 135 5.
13. É. Tóth, F. Connac, L. Helm, K. Adzamli and A. E. Merbach
¹⁷O NMR, EPR and NMRD Characterization of (Gd(DTPA-BMEA)(H₂O))₃: A Neutral MRI Contrast Agent
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14. É. Tóth, F. Connac, L. Helm, K. Adzamli and A. E. Merbach
Direct Assessment of Water Exchange on a Gd(III) Chelate Bound to a Protein
J. Biol. Inorg. Chem. **1998**, 3, 606.
15. R. Hedinger, M. Ghisletta, K. Hegetschweiler, É. Tóth, A. E. Merbach, R. Sessoli, D. Gatteschi and V. Gramlich
Trinuclear Lanthanoid Complexes of 1,3,5-Triamino-1,3,5-trideoxy-cis-inositol with a Unique, Sandwich-Type Cage Structure
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16. É. Tóth, L. Helm, K. Kellar and A. E. Merbach
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Chem. Eur. J. **1998**, 5, 1202.
17. J. P. André, H. R. Maecke, É. Tóth and A. E. Merbach
Synthesis and Physicochemical Characterization of a Novel Precursor for Covalently Bound Macromolecular MRI Contrast Agents
J. Biol. Inorg. Chem. **1999**, 4, 341.
18. J. P. André, É. Tóth, H. Fischer, A. Seelig, H. R. Maecke, and A. E. Merbach
High Relaxivity for Monomeric Gd(DOTA)-based MRI Contrast Agents – Thanks to Micellar Self-organization
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19. É. Tóth, O. M. Ni Dhubhghaill, G. Besson, L. Helm and A. E. Merbach

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21. E. Szilágyi, É. Tóth, E. Brücher and A. E. Merbach,
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22. P. Caravan, É. Tóth, A. Rockenbauer and A. E. Merbach
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Inorg. Chim. Acta, **2000**, *298*, 226-234.
24. C. Platas, F. Avecilla, A. de Blas, T. Rodriguez-Blas, C. F. G. C. Geraldes, É. Tóth, A. E. Merbach, J.-C. Bünzli
Mono- and bimetallic lanthanide(III) phenolic cryptates obtained by template reaction: solid state structure, photophysical properties and relaxivity
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25. A. Borel, É. Tóth, L. Helm, A. Jánossy, A. E. Merbach
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1. F. Dunand, É. Tóth, R. Hollister, A. E. Merbach
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36. R. Ruloff, É. Tóth, R. Scopelliti, R. Tripier, H. Handle, A. E. Merbach
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47. Z. Jászberényi, É. Tóth*, T. Kálai, R. Király, L. Burai, E. Brücher*, A. E. Merbach and K. Hideg
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48. E. Balogh, R. Tripier, R. Ruloff and É. Tóth
Kinetics of formation and dissociation of lanthanide(III) complexes with the 13-membered macrocyclic ligand TRITA⁴⁻
Dalton Trans. **2005**, 1058-1065.
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67. S. Laus, B. Sitharaman, É. Tóth,* R. D. Bolskar, L. Helm,* L.J. Wilson* and A. E. Merbach
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Eur. J. Inorg. Chem. **2007**, 5489-5499.
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