

## 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.
2. É. Tóth, E. Brücher, I. Lázár and I. Tóth  
Kinetics of Formation and Dissociation of Lanthanide(III)-DOTA Complexes  
*Inorg. Chem.* **1994**, 33, 4070.
3. 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.
4. 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.
5. É. Tóth, S. Vauthey, D. Pubanz and A. E. Merbach  
Water Exchange and Rotational Dynamics of the Dimeric Gadolinium(III) Complex [BO{Gd(DO3A)(H<sub>2</sub>O)}<sub>2</sub>]: A Variable-Temperature and -Pressure <sup>17</sup>O NMR Study  
*Inorg. Chem.* **1996**, 35, 3375.
6. É. Tóth, D. Pubanz, S. Vauthey, L. Helm, and A. E. Merbach  
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*Chem. Eur. J.* **1996**, 2, 1607.
7. L. Burai, V. Hietapelto, R. Király, É. Tóth and E. Brücher  
Stability Constants and <sup>1</sup>H 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  
*Proceedings of the "Deuxième Colloque Franco-Québécois en Chimie Inorganique et Organométallique*, **1997**, May.

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. Adzamlı and A. E. Merbach  
<sup>17</sup>O NMR, EPR and NMRD Characterization of (Gd(DTPA-BMEA)(H<sub>2</sub>O)): A Neutral MRI Contrast Agent  
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14. É. Tóth, F. Connac, L. Helm, K. Adzamlı 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  
*Inorg. Chem.* **1998**, 37, 6698.
16. É. Tóth, L. Helm, K. Kellar and A. E. Merbach  
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17. J. P. André, H. R. Maেকে, É. Tóth and A. E. Merbach  
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18. J. P. André, É. Tóth, H. Fischer, A. Seelig, H. R. Maেকে, and A. E. Merbach  
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20. K. Adzamlı, É. Tóth, M. P. Perisamy, S. H. Koenig, A. E. Merbach and M.D. Adams, <sup>1</sup>H NMRD and <sup>17</sup>O NMR Assessment of Water Exchange and Rotational Dynamics of Two Potential MRI Agents: MP-1177 (an extracellular agent) and MP-2269 (a blood pool agent)  
*Magnetic Resonance Materials in Physics, Biology and Medicine*, **1999**, 8, 163.
21. E. Szilágyi, É. Tóth, E. Brücher and A. E. Merbach,  
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*J. Chem. Soc. Dalton Trans.* **1999**, 2481.
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. Rodrigez-Blas, C. F. G. C. Geraldes, É. Tóth, A. E. Merbach, J.-C. Bünzli  
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25. A. Borel, É. Tóth, L. Helm, A. Jánossy, A. E. Merbach  
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27. S. Seibig, É. Tóth, A. E. Merbach  
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*J. Am. Chem. Soc.* **2000**, 122, 5822-5830.
28. L. Burai, É. Tóth, S. Seibig, R. Scopelitti, A. E. Merbach  
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29. N. Fatin-Rouge, É. Tóth, D. Perret, R. H. Backer, A. E. Merbach, J.-C. G. Bünzli  
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*Chem. Eur. J.* **2003**, 9, 3555-3566.

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*J. of Alloys and Compounds*, **2004**, 374, 298-302.
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Synthesis and complexation properties of DTPA-N,N,N'',N''-bis[bis(butyl)]-N'-methyl-tris(amide). Kinetic stability and water exchange of its Gd<sup>3+</sup> complex  
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*Contrast Media and Molecular Imaging*, **2006**, *1*, 30-40.
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Phosphinic derivative of DTPA conjugated to a G5 PAMAM dendrimer: an  $^{17}\text{O}$  and  $^1\text{H}$  relaxometric study of its Gd(III) complex  
*Dalton Trans.* **2006**, 3399-3406.
62. M. Mato-Iglesias, E. Balogh, C. Platas-Iglesias, É. Tóth, A. de Blas, T. Rodríguez-Blas  
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Physicochemical and MR imaging characterisation of  $\text{Gd}^{3+}$  loaded PAMAM and hyperbranched dendrimers  
*J. Biol. Inorg. Chem.* **2007**, *12*, 406-420.
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Gadolinium(III) Complexes of Mono- and Diethyl Esters of Monophosphonic Acid Analogue of DOTA as Potential MRI Contrast Agents: Solution Structures and Relaxometric Studies  
*Dalton Trans.* **2007**, 493-501.
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*Dalton Trans.* **2007**, 3572-3581.
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*J. Biol. Inorg. Chem.* **2008**, *13*, 35-46.
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*Inorg. Chem.* **2008**, *47*, 1370-1381.
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In vivo MRI assessment of a novel Gd<sup>III</sup>-based contrast agent designed for high magnetic field applications  
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