

## CERM Publications 2026

1. Bielskuté-García S., Mateos B., Awawdy M., Garcia-Cabau C., Niskanen H., Sánchez-Zarzalejo C., Bracaglia L., Pierattelli R., Felli I.C., Frigolé-Vivas M., García J., Riera A., Hnisz D., Salvatella X., Oligomerization enables the selective targeting of an intrinsically disordered region by a small molecule, **Science advances**, 2026, 12 (9), pp. eadz7400, doi: 10.1126/sciadv.adz7400 (IF 12.5)
2. Tolchard J., Le Marchand T., Aspers R.L.E.G., Batta G., Bechinger B., Brath U., Chasapi S.A., Čikoš A., Ecsedi K., Favier A., Ferreira A.S.D., Fiala R., Georgiopoulou P.D., Gómez J.S., Jaudzems K., Karlsson G., Kentgens A.P.M., Lambregts S.F.H., Morelli F., Mulder F.A.A., Natarajan S.V., Persson C., Pierattelli R., Pons M., Raya J., Redfield C., Smrečki V., Spyroulias G.A., Trébosc J., Vallet A., van Heijenoort C., van Ingen H., Vosegaard T., Wirmer-Bartoschek J., Schwalbe H., Lesage A., Pintacuda G., Moving NMR infrastructures to remote access capabilities, **Progress in Nuclear Magnetic Resonance Spectroscopy**, 2026, 152-153, art. no. 101595, doi: 10.1016/j.pnmrs.2026.101595 (IF 8.2)
3. Laveglia V., Ciofalo C., Morelli E., Andreini C., Rosato A., Master of Metals2: a graph neural network based architecture for the prediction of zinc binding sites in protein structures, **Briefings in Bioinformatics**, 2026, 27 (2), art. no. bbag078, doi: 10.1093/bib/bbag078 (IF 7.7)
4. Fiorucci L., Lang L., Tierney D.L., Botta M., Parigi G., Luchinat C., Ravera E., The fine effects of high magnetic fields on hyperfine shifts, **Chemical Science**, 2026, doi: 10.1039/d5sc09982j (IF 7.5)
5. Doni, D., Grifagni, D., Cavion, F. et al. A novel mutation in FDX2 provides insights into the pathogenesis of MEOAL mitochondrial neuromuscular disease. **Cell Death Dis** 17, 59 (2026). <https://doi.org/10.1038/s41419-025-08323-3>. (IF 7.0)
6. Rodella M.A., Schiavina M., Mayzel M., Cappanni C., Kümmerle R., Pierattelli R., Felli I.C., At the core of the interaction: Probing charged side chains in flexible protein regions with simultaneous nuclear magnetic resonance experiments, **Protein Science**, 2026, 35 (4), art. no. e70533, doi: 10.1002/pro.70533 (IF 5.2)
7. Santos BPO, Bera K, Grisanti L, Felli IC, Pierattelli R, Magistrato A. Exploring Disordered Regions of Human Spliceosome Proteins. **J Phys Chem Lett.** 2026 Feb 14. doi: 10.1021/acs.jpcclett.6c00082. Epub ahead of print. PMID: 41689531. (IF 4.7)
8. Brotherton A.R., Tsao W., Luchinat C., Parigi G., Meade T.J., Chemical Control of Aggregation-Induced Enhancement via  $\beta$ -Galactose and Gadolinium Chelates, **Inorganic Chemistry**, 2026, 65 (14), pp. 8061 – 8069, doi: 10.1021/acs.inorgchem.6c00654 (IF 4.7)
9. Janusz H. Hankiewicz, Giacomo Parigi, Zbigniew J. Celinski, Yu Hao, Allan D. Angus, Kristen Petersen, Dorota Lachowicz, Angelika Kmita, Marek Przybylski, Nuclear relaxation in agar gel in the presence of highly concentrated PEG coated magnetic nanoparticles at low magnetic fields. Application of temperature dependent weighting for MRI thermometry, **RSC Adv.**, 2026,16, 4157-4169 doi: 10.1039/D5RA07731A. (IF 4.6)

10. Tang JH, Taghian T, Jayakumar S, Parigi G, Luchinat C, Hall E, Gray-Edwards HL, Meade TJ. Bioresponsive MR Imaging Probes for Noninvasive Monitoring of AAV Gene Therapy. **Bioconjug Chem.** 2026 Feb 9. doi: 10.1021/acs.bioconjchem.5c00525. Epub ahead of print. PMID: 41664471. (IF 3.9)
11. Ghini V., Siciliano S., Querci L., Angiolini L., Truglio G.I., Cini E., Piccioli M., Petricci E., Turano P., An Integrated NMR Approach for Evaluating Linker-Payload Conjugation with Monoclonal Antibodies, **Bioconjugate Chemistry**, 2026, 37 (2), pp. 472 – 478, doi: 10.1021/acs.bioconjchem.6c00017 (IF 3.9)
12. Fantato L, Salobehaj M, Patrussi J, Meoni G, Vignoli A, Tenori L. Benchtop NMR in Biomedicine: An Updated Literature Overview. **Metabolites.** 2025 Dec 22;16(1):3. doi: 10.3390/metabo16010003. PMID: 41590611; PMCID: PMC12844325. (IF 3.7)
13. Bientinesi E., Vignoli A., Ristori S., Salobehaj M., Bertoni G., Monti D., Tenori L., An NMR-Based Protocol for Profiling the Endo- and Exo-Metabolomes in A $\beta$ 1-42 Treated Human Astrocytes from Healthy and Alzheimer's Disease Donors, **Metabolites**, 2026, 16 (3), art. no. 173, doi: 10.3390/metabo16030173. (IF 3.7)
14. Palmieri E, Monaci V, Durante S, Cescutti P, Micoli F, Gasperini G. Double- hit approach for novel glycoconjugates combining cytoplasmic glycoengineering and selective chemistry. **RSC Chem Biol.** 2026 Jan 15. doi: 10.1039/d5cb00320b. Epub ahead of print. PMID: 41552780; PMCID: PMC12805384. (IF 3.1)
15. Schurko RW, Rienstra CM, Jaroniec CP, Hansen AL, Franks WT, Bryce DL, Brinkmann A, Terskikh V, Brown SP, Iuga D, van Heijenoort C, Fayon F, Bertaina S, Alfonso C, Karlsson G, Gröbner G, Potrzebowski MJ, Cerofolini L, Ravera E, Fragai M, Lelli M, Lesage A, Pintacuda G, Pons M, Mafra L, Schneider JF, Monti GA, Acosta RH, Pastawski HM, Thomas B, Kolyagin YG, Agarwal V, Hou G, Deng F, Xue K, Kigawa T, Manjunatha Reddy GN. Impact of shared facilities in advancing solid-state NMR research: 2025 edition. **Solid State Nucl Magn Reson.** 2026 Feb;141:102053. doi: 10.1016/j.ssnmr.2025.102053. (IF 2.4)
16. Russomanno P, Fragai M, Brindisi M, Pelliccia S. Two Sides of the Same Coin: Transthyretin (TTR) as a Target or Drug Carrier for Drug (Bio)conjugates. **J Med Chem.** 2026 Feb 12;69(3):1803-1841. doi: 10.1021/acs.jmedchem.5c01560. Epub 2026 Feb 2. PMID: 41627906. (IF 2.6)
17. Cosottini L, Ghini V, Turano P, Ferritin-assisted biomineralization and drug delivery: It's a matter of hard and soft, **J. Inorg. Biochem.** 2026, Volume 274, 2026, 113090, ISSN 0162-0134, doi: 10.1016/j.jinorgbio.2025.113090. (IF 3.2)
18. Cuccaro R, Masini M, Malanho Silva J, Camponeschi F, Banci L, Human glutaredoxin 3: multiple domains for a unique function **J. Inorg. Biochem.**, Volume 274, 2026, 113103, ISSN 0162-0134, doi: 10.1016/j.jinorgbio.2025.113103. (IF 3.2)
19. Parigi G., Kubrak A., From Power-Law to Correlation-Time Distributions: A Unified Framework for the Analysis of Nuclear Magnetic Relaxation Dispersion (NMRD) Profiles of Complex Biological Systems **Magnetic Resonance in Chemistry**, 2026, 64 (5), pp. 494 – 505, doi: 10.1002/mrc.70093 (IF 1.4)

20. Casoria M., Pagliai M., Andreini C., Papini A.M., Procacci P., Macchiagodena M., Fluorinated Alcohol Biosolvents and  $\alpha$ -Helix Peptide Secondary Structure: A Molecular Dynamics Study on the Solvent Concentration Effect, **Liquids**, 2026, 6 (1), art. no. 6, doi: 10.3390/liquids6010006 (IF n.a.)