

Curriculum Vitae

Ranko Richert

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EDUCATION

Tel Aviv University, Israel	Physical Chemistry	Postdoc. Minerva Fellow, 1992/93
University of Marburg, Germany	Physical Chemistry	Habilitation, 1991
University of Marburg, Germany	Physical Chemistry	Ph.D., <i>summa cum laude</i> , 1985
University of Marburg, Germany	Physics	Diplom, <i>magna cum laude</i> , 1982

APPOINTMENTS

Arizona State University	Professor	(2009-present)
Arizona State University	Associate Professor	(2003-2009)
Arizona State University	Assistant Professor	(1999-2003)
University of Mainz, Germany	Research Associate and Lecturer	(1998-1999)
Max-Planck-Institute for Polymer Research, Mainz, Germany	Senior Research Associate	(1993-1998)
University of Marburg	Research and Teaching Assistant	(1988-1993)
University of Marburg	Scientific Collaborator	(1982-1988)

SABBATICAL

University of Göttingen,	Physics (Prof. K. Samwer)	(Fall 2006 & 2013)
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1982 - 2016 :

243 Published articles in journals with international circulation
82 Invitations to international conferences
63 Contributed presentations at scientific conferences
73 Invited seminars at academic institutions
Google Scholar: 11084 Citations, *h*-index: 57, *i10*-index: 160
Web of Science (ISI): 9118 Citations, *h*-index: 50
683 Referee reports of journal articles or reviews of grant proposals
nominated for the Dean's Distinguished Teaching Award (2005)
awarded the EH&S Award for Excellence (2013)

Editorial Boards : The Journal of Chemical Physics, European Physical Journal B
Board Chairman: International Dielectric Society

List of Publications

Ranko Richert

Non-refereed papers are identified by numbers with asterisk.
Entries 93 and beyond reflect work performed at ASU.

243. *Relaxation Time and Excess Entropy in Viscous Liquids: Electric Field Versus Temperature as Control Parameter*
R. Richert, J. Chem. Phys. 146 (2017) 064501.1 - 064501.5
242. *Role of Quantum Fluctuations in Structural Dynamics of Liquids of Light Molecules*
A. Agapov, V. N. Novikov, A. Kisliuk, R. Richert, A. P. Sokolov, J. Chem. Phys. 145 (2016) 234507.1 - 234507.7
241. *Correlation between Viscoelastic Moduli and Atomic Rearrangements in Metallic Glasses*
H.-B. Yu, R. Richert, K. Samwer, J. Phys. Chem. Lett. 7 (2016) 3747 - 3751
240. *Field Induced Changes in the Ring/Chain Equilibrium of Hydrogen Bonded Structures: 5-Methyl-3-heptanol*
A. R. Young-Gonzales, R. Richert, J. Chem. Phys. 145 (2016) 074503.1 - 074503.6
239. *Dynamics of Glass-Forming Liquids. XX. Third Harmonic Experiments of Non-Linear Dielectric Effects Versus a Phenomenological Model*
P. Kim, A. R. Young-Gonzales, R. Richert, J. Chem. Phys. 145 (2016) 064510.1 - 064510.8
238. *Electrorheological Source of Nonlinear Dielectric Effects in Molecular Glass-Forming Liquids*
S. Samanta, R. Richert, J. Phys. Chem. B 120 (2016) 7737 - 7744
237. *Connecting Thermodynamics and Dynamics in a Supercooled Liquid: Cresolphthalein-Dimethylether*
S. Samanta, O. Yamamuro, R. Richert, Thermochim. Acta 636 (2016) 57 - 62
236. *Nonlinear Dielectric Signatures of Entropy Changes in Liquids Subject to Time-Dependent Electric Fields*
R. Richert, J. Chem. Phys. 144 (2016) 114501.1 - 114501.5
235. *Temperature Derivative of the Dielectric Constant Gives Access to Multipoint Correlations in Polar Liquids*
D. V. Matyushov, R. Richert, J. Chem. Phys. 144 (2016) 041102.1 - 041102.4
234. *Dynamics in Supercooled Secondary Amide Mixtures: Dielectric and Hydrogen Bond Specific Spectroscopies*
C. Gainaru, S. Bauer, E. Vynokur, H. Wittkamp, W. Hiller, R. Richert, R. Böhmer, J. Phys. Chem. B 119 (2015) 15769 - 15779

233. *Suppression of β Relaxation in Vapor-Deposited Ultrastable Glasses*
H.-B. Yu, M. Tyllinski, A. Guiseppi-Elie, M. D. Ediger, R. Richert, Phys. Rev. Lett. 115 (2015) 185501.1 - 185501.5
232. *Unified Criterion for Temperature-Induced and Strain-Driven Glass Transitions in Metallic Glass*
H.-B. Yu, R. Richert, R. Maaß, K. Samwer, Phys. Rev. Lett. 115 (2015) 135701.1 - 135701.5
231. *Dynamics of Glass-Forming Liquids. XIX. Rise and Decay of Field Induced Anisotropy in the Non-Linear Regime*
A. R. Young-Gonzales, S. Samanta, R. Richert, J. Chem. Phys. 143 (2015) 104504.1 - 104504.9
230. *Strain Induced Fragility Transition in Metallic Glass*
H.-B. Yu, R. Richert, R. Maaß, K. Samwer, Nat. Commun. 6 (2015) 7179.1 - 7179.6
229. *Structural Recovery in Plastic Crystals by Time-Resolved Non-Linear Dielectric Spectroscopy*
B. Riechers, K. Samwer, R. Richert, J. Chem. Phys. 142 (2015) 154504.1 - 154504.8
228. *Probing Liquid Dynamics, One Molecule at a Time*
R. Richert, Proc. Natl. Acad. Sci. U.S.A. 112 (2015) 4841 - 4842
227. *Thermal Stability of Vapor-Deposited Stable Glasses of an Organic Semiconductor*
D. M. Walters, R. Richert, M. D. Ediger, J. Chem. Phys. 142 (2015) 134504.1 - 134504.10
226. *On the Existence of and Mechanism for Microwave-Specific Reaction Rate Enhancement*
G. B. Dudley, R. Richert, A. E. Stiegman, Chem. Sci. 6 (2015) 2144 - 2152
225. *Quantum Effects in the Dynamics of Deeply Supercooled Water*
A. L. Agapov, A. I. Kolesnikov, V. N. Novikov, R. Richert, A. P. Sokolov, Phys. Rev. E 91 (2015) 022312.1 - 022312.10
224. *Dynamics of Glass-Forming Liquids. XVIII. Does Entropy Control Structural Relaxation Times?*
S. Samanta, R. Richert, J. Chem. Phys. 142 (2015) 044504.1 - 044504.10
223. *Dopant Effects on 2-Ethyl-1-hexanol: A Dual-Channel Impedance Spectroscopy and Neutron Scattering Study*
L. P. Singh, A. Raihane, C. Alba-Simionesco, R. Richert, J. Chem. Phys. 142 (2015) 014501.1 - 014501.8
222. *Anomalously Large Isotope Effect in the Glass Transition of Water*
C. Gainaru, A. L. Agapov, V. Fuentes-Landete, K. Amann-Winkel, H. Nelson, K. W. Köster, A. I. Kolesnikov, V. N. Novikov, R. Richert, R. Böhmer, T. Loerting, A. P. Sokolov, Proc. Natl. Acad. Sci. U.S.A. 111 (2014) 17402 - 17407
221. *Non-Linear Dielectric Behavior of a Secondary Relaxation: Glassy D-Sorbitol*
S. Samanta, R. Richert, J. Phys. Chem. B 119 (2015) 8909 - 8916

220. *Structure and Dynamics of Monohydroxy Alcohols - Milestones Towards their Microscopic Understanding, 100 Years After Debye*
R. Böhmer, C. Gainaru, R. Richert, Physics Reports 545 (2014) 125 - 195
219. *Role of Fragility in the Formation of Highly Stable Organic Glasses*
A. Sepúlveda, M. Tyllinski, A. Guiseppi-Elie, R. Richert, M. D. Ediger, Phys. Rev. Lett. 113 (2014) 045901.1 - 045901.5
218. *Comment on "Third order susceptibilities in supercooled liquids and the 'box model' theory versus experiments" [J. Chem. Phys. 140, 054508 (2014)]*
S. Samanta, R. Richert, J. Chem. Phys. 140 (2014) 247101.1 - 247101.2
217. *Dielectric Loss of Poly(vinylacetate) at Electric Fields of 400 kV/cm*
U. Pathak, R. Richert, Colloid Polym. Sci. 292 (2014) 1905 - 1911
216. *Fast Crystal Growth from Organic Glasses: Comparison of o-Terphenyl with Its Structural Analogs*
C. T. Powell, K. Paeng, Z. Chen, R. Richert, L. Yu, M. D. Ediger, J. Phys. Chem. B 118 (2014) 8203 - 8209
215. *Limitations of Heterogeneous Models of Liquid Dynamics: Very Slow Rate Exchange in the Excess Wing*
S. Samanta, R. Richert, J. Chem. Phys. 140 (2014) 054503.1 - 054503.7
214. *Frequency Dependence of Dielectric Saturation*
R. Richert, Phys. Rev. E 88 (2013) 062313.1 - 062313.6
213. *Dielectric Spectroscopy Study of Myoglobin in Glycerol-Water Mixtures*
S. Roy, R. Richert, Biochim. Biophys. Acta 1844 (2014) 323 - 329
212. *Dynamics of Glass-Forming Liquids. XVII. Dielectric Relaxation and Intermolecular Association in a Series of Isomeric Octyl Alcohols*
L. P. Singh, C. Alba-Simionesco, R. Richert, J. Chem. Phys. 139 (2013) 144503.1 - 144503.13
211. *Comment on "Temperature Divergence of the Dynamics of a Poly(vinyl acetate) Glass: Dielectric vs. Mechanical Behaviors" [J. Chem. Phys. 136, 154901 (2012)]*
R. Richert, J. Chem. Phys. 139 (2013) 137101.1 - 137101.2
210. *Supercooled Liquids and Glasses by Dielectric Relaxation Spectroscopy*
R. Richert, Adv. Chem. Phys. 156 (2014) 101 - 195
209. *Measurement of Conductivity and Permittivity on Samples Sealed in Nuclear Magnetic Resonance Tubes*
W. Huang, C. A. Angell, J. L. Yarger, R. Richert, Rev. Sci. Instrum. 84 (2013) 073906.1 - 073906.5
208. *On the Derivation of Equilibrium Relaxation Times from Aging Experiments*
R. Richert, P. Lunkenheimer, S. Kastner, A. Loidl, J. Phys. Chem. B 117 (2013) 12689 - 12694

207. *Dynamics of Glass-Forming Liquids. XVI. Observation of Ultrastable Glass Transformation via Dielectric Spectroscopy*
Z. Chen, A. Sepúlveda, M. D. Ediger, R. Richert, J. Chem. Phys. 138 (2013) 12A519.1 - 12A519.8
206. *Watching Hydrogen Bonded Structures in an Alcohol Convert from Rings to Chains*
L. P. Singh, R. Richert, Phys. Rev. Lett. 109 (2012) 167802.1 - 167802.5
205. *Experimental Studies of Debye-like Process and Structural Relaxation in Mixtures of 2-ethyl-1-hexanol and 2-ethyl-1-hexyl bromide*
M. Preuß, C. Gainaru, T. Hecksher, S. Bauer, J. C. Dyre, R. Richert, R. Böhmer, J. Chem. Phys. 137 (2012) 144502.1 - 144502.10
204. *Difficulties in Characterizing High-Resistivity Silicon*
P. Nayak, R. Richert, D. K. Schroder, ECS Trans. 50 (2013) 259 - 268
203. *On the Dynamics of Liquids in Their Viscous Regime Approaching the Glass Transition*
Z. Chen, C. A. Angell, R. Richert, Eur. Phys. J. E 35 (2012) 65.1 - 65.7
202. *Dielectric Spectroscopy of Thin Films by Dual-Channel Impedance Measurements on Differential Interdigitated Electrode Arrays*
Z. Chen, A. Sepúlveda, M. D. Ediger, R. Richert, Eur. Phys. J. B 85 (2012) 268.1 - 268.5
201. *Response to "Comment on 'Dynamics of Glass-Forming Liquids. XIII. Microwave Heating in Slow Motion' " [J. Chem. Phys. 137, 027101 (2012)]*
W. Huang, R. Richert, J. Chem. Phys. 137 (2012) 027102.1 - 027102.2
200. *Enthalpy Recovery in Glassy Materials: Heterogeneous versus Homogenous Models*
S. K. S. Mazinani, R. Richert, J. Chem. Phys. 136 (2012) 174515.1 - 174515.8
199. *Erratum: "Heat Capacity in the Glass Transition Range Modeled on the Basis of Heterogeneous Dynamics" [J. Chem. Phys. 134, 144501 (2011)]*
R. Richert, J. Chem. Phys. 136 (2012) 169901.1
198. *Two-channel Impedance Spectroscopy for the Simultaneous Measurement of Two Samples*
L. P. Singh, R. Richert, Rev. Sci. Instrum. 83 (2012) 033903.1 - 033903.5
197. *Molecular Packing in Highly Stable Glasses of Vapor-Deposited Tris-naphthylbenzene Isomers*
K. Dawson, L. A. Kopff, L. Zhu, R. J. McMahon, L. Yu, R. Richert, M. D. Ediger, J. Chem. Phys. 136 (2012) 094505.1 - 094505.11
196. *Molecular Mobility in Supported Thin Films of Polystyrene, Poly(methyl methacrylate), and Poly(2-vinyl pyridine) Probed by Dye Reorientation*
K. Paeng, R. Richert, M. D. Ediger, Soft Matter 8 (2012) 819 - 826
195. *Dynamics of Glass-Forming Liquids. XV. Dynamical Features of Molecular Liquids that Form Ultra-Stable Glasses by Vapor Deposition*
Z. Chen, R. Richert, J. Chem. Phys. 135 (2011) 124515.1 - 124515.6

- 194.* *Supercooled Liquid Dynamics: Advances and Challenges*
R. Richert, in "Structural Glasses and Supercooled Liquids: Theory, Experiment, and Applications", P. Wolynes, V. Lubchenko (Eds.), Wiley, Hoboken, 2012, p.1 - 30
193. *Heating Liquid Dielectrics by Time Dependent Fields*
A. Khalife, U. Pathak, R. Richert, Eur. Phys. J. B 83 (2011) 429 - 435
192. *Heat Capacity in the Glass Transition Range Modeled on the Basis of Heterogeneous Dynamics*
R. Richert, J. Chem. Phys. 134 (2011) 144501.1 - 144501.7
191. *Dielectric Properties of Epoxy Based Nano-composites for High Voltage Outdoor Insulation*
G. Iyer, R. S. Gorur, R. Richert, A. Krivda, P. Mahonen, IEEE Trans. Dielectr. Electr. Insul. 18 (2011) 659 - 666
190. *Experimental Approaches to Heterogeneous Dynamics*
R. Richert, N. Israeloff, C. Alba-Simionesco, F. Ladieu, D. L'Hôte, in "Dynamical Heterogeneities in Glasses, Colloids, and Granular Media", L. Berthier, G. Biroli, J.-P. Bouchaud, L. Cipelletti, W. van Saarloos (Eds.), Oxford University Press, Oxford, 2011, p.152 - 202
189. *Appearance of a Debye Process at the Conductivity Relaxation Frequency of a Viscous Liquid*
R. Richert, A. Agapov, A. P. Sokolov, J. Chem. Phys. 134 (2011) 104508.1 - 104508.7
188. *On the Level of Mechanical Loss in Metallic Glasses*
D. Bedorf, R. Richert, K. Samwer, Eur. Phys. J. B 80 (2011) 325 - 329
187. *Dynamics of Nanoconfined Supercooled Liquids*
R. Richert, Annu. Rev. Phys. Chem. 62 (2011) 65 - 84
186. *Dynamic Coupling of a Small Rigid Probe to Viscous Ortho-terphenyl*
W. Huang, R. Richert, J. Chem. Phys. 133 (2010) 214501.1 - 214501.4
185. *Reverse Calorimetry of a Supercooled Liquid: Propylene Carbonate*
R. Richert, Thermochem. Acta 522 (2011) 28 - 35
184. *On the Features of the Secondary Relaxations: The Case of Cyclohexane Derivatives*
A. Mandanici, M. Cutroni, R. Richert, J. Non-Cryst. Solids 357 (2011) 264 - 266
183. *Dynamics of Glass-Forming Liquids. XIV. A Search for Ultra-Slow Dielectric Relaxation in Glycerol*
R. Richert, J. Chem. Phys. 133 (2010) 074502.1 - 074502.5
182. *Dielectric Spectroscopy and Dynamics in Confinement*
R. Richert, Eur. Phys. J. Special Topics 189 (2010) 37 - 46
181. *Confinement Effects in Bulk Supercooled Liquids*
R. Richert, Eur. Phys. J. Special Topics 189 (2010) 223 - 229

180. *Reply to Comment on "Measuring the Configurational Heat Capacity of Liquids"*
L.-M. Wang, R. Richert, Phys. Rev. Lett. 104 (2010) 239603.1 - 239603.1
179. *Comment on "Hidden Slow Dynamics in Water"*
R. Richert, Phys. Rev. Lett. 104 (2010) 249801.1 - 249801.1
178. *Calorimetry Based on Energy Absorbed From Time-Dependent Fields*
R. Richert, J. Non-Cryst. Solids 357 (2011) 726 - 730
177. *Glass Transition and Fragility in the Simple Molecular Glassformer CS₂ from CS₂-S₂Cl₂ Solution Studies*
Z. Zhao, W. Huang, R. Richert, C. A. Angell, J. Chem. Phys. 132 (2010) 154505.1 - 154505.6
176. *Capacitive Measurement of Mercury Column Heights in Capillaries*
S. Frey, R. Richert, Rev. Sci. Instrum. 81 (2010) 034702.1 - 034702.3
175. *Structural Relaxation Dynamics in Binary Glass-forming Molecular Liquids with Ideal and Complex Mixing Behavior*
L.-M. Wang, R. P. Liu, Y. J. Tian, R. Richert, J. Phys. Chem. B 114 (2010) 3618 - 3622
174. *Physical Aging and Heterogeneous Dynamics*
R. Richert, Phys. Rev. Lett. 104 (2010) 085702.1 - 085702.4
173. *Dynamical and Quasi-static Structural Relaxation Paths in Pd₄₀Ni₄₀P₂₀ Glass*
A. Kahl, T. Koeppel, D. Bedorf, R. Richert, M. L. Lind, M. D. Demetriou, W. L. Johnson, W. Arnold, K. Samwer, Appl. Phys. Lett. 95 (2009) 201903.1 - 201903.3
172. *Reverse Dynamic Calorimetry of a Viscous Ionic Liquid*
W. Huang, R. Richert, J. Chem. Phys. 131 (2009) 184501.1 - 184501.7
171. *Time-resolved Non-linear Dielectric Responses in Molecular Systems*
R. Richert, W. Huang, J. Non-Cryst. Solids 356 (2010) 787 - 793
170. *Viscous Nonpolar Liquids in Confinement Studied by Mechanical Solvation*
W. Wen, R. Richert, J. Chem. Phys. 131 (2009) 084710.1 - 084710.7
169. *Diffusion-Controlled and 'Diffusionless' Crystal Growth near the Glass Transition: Relation between Liquid Dynamics and Growth Kinetics of Seven ROY Polymorphs*
Y. Sun, H. Xi, M. D. Ediger, R. Richert, L. Yu, J. Chem. Phys. 131 (2009) 074506.1 - 074506.9
168. *Dynamics of Glass-Forming Liquids. XIII. Microwave Heating in Slow Motion*
W. Huang, R. Richert, J. Chem. Phys. 130 (2009) 194509.1 - 194509.14
167. *Insulated Electrodes for Eliminating Conductivity in Dielectric Relaxation Experiments*
R. Richert, Eur. Phys. J. B 68 (2009) 197 - 200
166. *On the Harmonic Analysis of Non-linear Dielectric Effects*
W. Huang, R. Richert, Eur. Phys. J. B 66 (2008) 217 - 221

165. *Prevalence of Approximate \sqrt{t} Relaxation for the Dielectric α Process in Viscous Organic Liquids*
A. I. Nielsen, T. Christensen, B. Jakobsen, K. Niss, N. B. Olsen, R. Richert, J. C. Dyre, J. Chem. Phys. 130 (2009) 154508.1 - 154508.15
164. *On the Features of the Dielectric Response of Supercooled Ethylcyclohexane*
A. Mandanici, W. Huang, M. Cutroni, R. Richert, Philos. Mag. 88 (2008) 3961 - 3971
163. *Heat Capacity and Entropy at the Glass Transition*
R. Richert, in "The XVth International Congress on Rheology, The Society of Rheology 80th Annual Meeting", A. Co, L. G. Leal, R. H. Colby, A. J. Giacomin (Eds.), AIP Conf. Proc. 1027 (2008) 1297 - 1299
162. *The Physics of Heating by Time-Dependent Fields: Microwaves and Water Revisited*
W. Huang, R. Richert, J. Phys. Chem. B 112 (2008) 9909 - 9913
161. *Merging of the α and β Relaxations and Aging via the Johari-Goldstein Modes in Rapidly Quenched Metallic Glasses*
J. Hachenberg, D. Bedorf, K. Samwer, R. Richert, A. Kahl, M. D. Demetriou, W. L. Johnson, Appl. Phys. Lett. 92 (2008) 131911.1 - 131911.3
160. *Why Retardation Takes More Time Than Relaxation in a Linear System*
J. Jäckle, R. Richert, Phys. Rev. E 77 (2008) 031201.1 - 031201.6
159. *Calorimetric versus Kinetic Glass Transitions in Viscous Monohydroxy Alcohols*
L.-M. Wang, Y. Tian, R. Liu, R. Richert, J. Chem. Phys. 128 (2008) 084503.1 - 084503.8
158. *Dynamics of Glass-Forming Liquids. XII. Dielectric Study of Primary and Secondary Relaxations in Ethylcyclohexane*
A. Mandanici, W. Huang, M. Cutroni, R. Richert, J. Chem. Phys. 128 (2008) 124505.1 - 124505.7
157. *Measuring the Configurational Heat Capacity of Liquids*
L.-M. Wang, R. Richert, Phys. Rev. Lett. 99 (2007) 185701.1 - 185701.4
156. *Primary and Secondary Relaxation Time Dispersions in Fragile Supercooled Liquids*
L.-M. Wang, R. Richert, Phys. Rev. B 76 (2007) 064201.1 - 064201.8
155. *Wide Frequency Range Capacitive Detection of Loss in a Metallic Cantilever using Resonance and Relaxation Modes*
R. Richert, Rev. Sci. Instrum. 78 (2007) 053901.1 - 053901.5
154. *Glass Transition Dynamics and Boiling Temperatures of Molecular Liquids and Their Isomers*
L.-M. Wang, R. Richert, J. Phys. Chem. B 111 (2007) 3201 - 3207
153. *Comparing Calorimetric and Dielectric Polarization Modes in Viscous 2-ethyl-1-hexanol*
H. Huth, L.-M. Wang, C. Schick, R. Richert, J. Chem. Phys. 126 (2007) 104503.1 - 104503.4

152. *Enhanced Diffusivity in Supercooled Liquids*
R. Richert, K. Samwer, *New J. Phys.* 9 (2007) 36.1 - 36.11
151. *Nonlinear Features in the Dielectric Behavior of Propylene Glycol*
S. Weinstein, R. Richert, *Phys. Rev. B* 75 (2007) 064302.1 - 064302.5
150. *Probing Heterogeneous Thermal Relaxation by Nonlinear Dielectric Spectroscopy*
S. Weinstein, R. Richert, *J. Phys.: Condens. Matter* 19 (2007) 205128.1 - 205128.7
149. *Glass Transitions in Viscous Monohydroxy Alcohols: Calorimetry versus Dielectric Relaxation*
L.-M. Wang, R. Richert, *Int. J. Thermophys.* 29 (2008) 2055 - 2061
148. *Solvation Dynamics and Electric Field Relaxation in an Imidazolium-PF₆ Ionic Liquid: From Room Temperature to the Glass Transition*
N. Ito, R. Richert, *J. Phys. Chem. B* 111 (2007) 5016 - 5022
147. *Nonlinear Dielectric Response and Thermodynamic Heterogeneity in Liquids*
R. Richert, S. Weinstein, *Phys. Rev. Lett.* 97 (2006) 095703.1 - 095703.4
146. *Solvation Dynamics in Viscous Polymer Solutions: Propylene Carbonate Confined by Poly(methylmethacrylate)*
F. He, R. Richert, *Phys. Rev. B* 74 (2006) 014201.1 - 014201.7
145. *Dielectric Study of Probe Rotation in Viscous Liquids* (INVITED PAPER)
W. Huang, R. Richert, *Philos. Mag.* 87 (2007) 371 - 382
144. *Confined Viscous Liquids: Interfacial versus Finite Size Effects* (INVITED PAPER)
F. He, L.-M. Wang, R. Richert, *Eur. Phys. J. Special Topics* 141 (2007) 3 - 9
143. *Solvent Response and Dielectric Relaxation in Supercooled Butyronitrile*
N. Ito, K. Duvvuri, D. V. Matyushov, R. Richert, *J. Chem. Phys.* 125 (2006) 024504.1 - 024504.8
142. *Fragility and Thermodynamics in Non-Polymeric Glass-Forming Liquids*
L.-M. Wang, C. A. Angell, R. Richert, *J. Chem. Phys.* 125 (2006) 074505.1 - 074505.8
141. *Response to "Comment on 'On the Dielectric Susceptibility Spectra of Supercooled o-Terphenyl'"* [*J. Chem. Phys.* 123, 154502 (2005)]
R. Richert, *J. Chem. Phys.* 124 (2006) 187102.1 - 187102.2
140. *Dynamics of Glass-Forming Liquids. XI. Fluctuating Environments by Dielectric Spectroscopy*
W. Huang, R. Richert, *J. Chem. Phys.* 124 (2006) 164510.1 - 164510.7
139. *Dynamics of a Supercooled Ionic Liquid Studied by Optical and Dielectric Spectroscopy*
N. Ito, W. Huang, R. Richert, *J. Phys. Chem. B* 110 (2006) 4371 - 4377
138. *Relaxational Features of Supercooled and Glassy m-Toluidine*
A. Mandanici, R. Richert, M. Cutroni, X. Shi, S. A. Hutcheson, G. B. McKenna, *J. Non-Cryst. Solids* 352 (2006) 4729 - 4734

137. *From Heterogeneous Probe Rotation to the Hydrodynamic Limit* (INVITED PAPER)
W. Huang, R. Richert, J. Non-Cryst. Solids 352 (2006) 4704 - 4709
136. *Enhanced Translational Diffusion of Rubrene in Sucrose Benzoate*
J. R. Rajian, W. Huang, R. Richert, E. L. Quitevis, J. Chem. Phys. 124 (2006) 014510.1 - 014510.8
135. *Heterogeneous Thermal Excitation and Relaxation in Supercooled Liquids*
S. Weinstein, R. Richert, J. Chem. Phys. 123 (2005) 224506.1 - 224506.9
134. *Diluent Effects on the Debye-Type Dielectric Relaxation in Viscous Monohydroxy Alcohols*
L.-M. Wang, S. Shahriari, R. Richert, J. Phys. Chem. B 109 (2005) 23255 - 23262
133. *Dynamics of Glass-Forming Liquids. X. Dielectric Relaxation of 3-Bromopentane as Molecular Probes in 3-Methylpentane*
W. Huang, S. Shahriari, R. Richert, J. Chem. Phys. 123 (2005) 164504.1 - 164504.7
132. *On the Dielectric Susceptibility Spectra of Supercooled o-Terphenyl*
R. Richert, J. Chem. Phys. 123 (2005) 154502.1 - 154502.3
131. *Effect of Dispersion on the Relaxation-Retardation Time Scale Ratio*
N. Ito, R. Richert, J. Chem. Phys. 123 (2005) 106101.1 - 106101.2
130. *Identification of Dielectric and Structural Relaxations in Glass-forming Secondary Amides*
L.-M. Wang, R. Richert, J. Chem. Phys. 123 (2005) 054516.1 - 054516.9
129. *Triplet Excitation Transfer in Glassy Systems: Spatial and Spectral Diffusion*
N. Ito, R. Richert, J. Chem. Phys. 122 (2005) 234508.1 - 234508.7
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Recent Invitations to Talk at International Conferences

Ranko Richert

84. Session on 'Alcohols, H-Bonds, and Water', 8th International Discussion Meeting on Relaxations in Complex Systems, Wisła, Poland, 23 - 29 July 2017
83. Session on 'Ionic Liquids', 8th International Discussion Meeting on Relaxations in Complex Systems, Wisła, Poland, 23 - 29 July 2017
82. Session on 'Glasses: Macroscopic, Nanoconfined, and Colloidal', 8th International Discussion Meeting on Relaxations in Complex Systems, Wisła, Poland, 23 - 29 July 2017
81. Session on 'Ultrastable Glasses', 8th International Discussion Meeting on Relaxations in Complex Systems, Wisła, Poland, 23 - 29 July 2017
80. Session on 'Dynamic Heterogeneity and the Glass Transition', 8th International Discussion Meeting on Relaxations in Complex Systems, Wisła, Poland, 23 - 29 July 2017
79. Session on 'Nonlinear Dynamics', 8th International Discussion Meeting on Relaxations in Complex Systems, Wisła, Poland, 23 - 29 July 2017
78. *Dynamics of Supercooled Liquids: Electric Field as a Variable*, Gordon Research Conference: "Chemistry & Physics of Liquids", Holderness School, Plymouth, New Hampshire, U.S.A., 6 - 11 August 2017
77. *The Effect of Electric Fields on the Glass Transition: Theory versus Experiment*, Dynamics of Glass-Forming Liquids: Will Theory and Experiment Ever Meet?, Copenhagen, Denmark, 5 - 7 April 2017
76. "Glass Formation and Relaxation" Session, Glass and Optical Materials Division (GOMD) Pacrim 2017 Conference, Waikaloa, Hawaii, U.S.A., 21 - 26 May 2017
75. *Field Induced Structural Recovery in Supercooled Liquids*, "Non-equilibrium Processes in Chemistry, Physics, and Biology" Symposium, Southwest Regional American Chemical Society Meeting, Galveston, Texas, U.S.A., 10 - 13 November 2016
74. *Tuning the Entropy of Dielectrics by High DC Fields: Experiments and Models*, 9th International Conference on Broadband Dielectric Spectroscopy and its Applications, Pisa, Italy, 11 - 16 September 2016
73. *Time-resolved Nonlinear Response to High AC and DC Fields*, Nonlinear Response in Complex Matter, Primošten, Croatia, 26 - 30 September 2016
72. *Basics and Applications of Nonlinear Dielectric Techniques*, 6th Laboratory Course on Dielectric Relaxation, San Sebastián, Spain, 18 - 22 May 2015
71. *Dielectric Relaxation of Materials that Form Ultra-Stable Glasses*, APS March Meeting 2015: Focus Session on 'Stable Glasses, Properties and Origins', San Antonio, Texas, 2 - 6 March 2015
70. *Supercooled Liquids in Soft and Hard Confinement*, International Workshop on Structure and Dynamics of Confined and Interfacial Fluids, Oak Ridge, Tennessee, 16 - 18 July 2014
69. *Liquid and Glassy Dynamics by Non-Linear Dielectric Experiments*, 8th International Conference on Broadband Dielectric Spectroscopy and its Applications, Wisła, Poland, 14 - 19 September 2014

Recent Contributed Conference Presentations

Ranko Richert

63. R. Richert, *Techniques of Time-resolved Dielectric Relaxation Measurements in the Nonlinear Regime*, Tutorial on "Physics of Dielectrics - Basic Principles and Applications", within 9th International Conference on Broadband Dielectric Spectroscopy, Pisa, Italy, 11 September 2016
62. R. Richert, *Tuning the Dynamics of a Liquid by Electric Fields via Entropy*, "Glass Meeting Göttingen (GMG)", Göttingen, Germany, 14 June 2016
61. R. Richert, *Tuning the Dynamics of a Liquid by Electric Fields via Entropy*, "Interplay between Nucleation, Crystallization, and the Glass Transition", 14th Lahnwitz Seminar on Calorimetry, Rostock-Warnemünde, Germany, 5 - 10 June 2016
60. S. Samanta, A. R. Young-Gonzales, R. Richert, *Does Entropy Control Structural Relaxation Times?*, Gordon Research Conference: "Chemistry & Physics of Liquids", Holderness School, Plymouth, New Hampshire, U.S.A., 2 - 7 August 2015
59. R. Richert, *The Homogeneous Character of True Structural Relaxation*, Viscous Liquids and the Glass Transition IX, Søminestationen, Holbæk, Denmark, 12 - 14 June 2014
58. R. Richert, *Structure and Dynamics of Hydrogen Bonded Liquids*, Gordon Research Conference: "Chemistry & Physics of Liquids", Holderness School, Plymouth, New Hampshire, U.S.A., 4 - 9 August 2013
57. L. P. Singh, R. Richert, *Non-linear dielectric effects in hydrogen bonding liquids*, Second International Workshop on 'Nonlinear Response in Complex Matter', Erlangen, Germany, 25 - 27 February 2013
56. R. Richert, *Ultra slow process in glycerol ?*, 6th International Conference on Broadband Dielectric Spectroscopy, Madrid, Spain, 7 - 10 September 2010
55. R. Richert, *Non-linear Effects in Physics of Dielectrics*, Tutorial on "Physics of Dielectrics - Basic Principles and Applications", within 6th International Conference on Broadband Dielectric Spectroscopy, Madrid, Spain, 7 - 10 September 2010
54. R. Richert, *Confinement Effects in Bulk Liquids (P)*, 4th International Workshop on Dynamics in Confinement, Grenoble, France, 2 - 5 March 2010
53. R. Richert, *Hide-and-Seek Below the dc-Conductivity Signal*, Tutorial on "Broadband Dielectric Spectroscopy and its Applications", within: 6th International Discussion Meeting on Relaxations in Complex Systems, Rome, Italy, 30 August 2009
52. R. Richert, *Nonlinear Dielectric Effects in Simple Fluids*, Tutorial on "Broadband Dielectric Spectroscopy and its Applications", within: 6th International Discussion Meeting on Relaxations in Complex Systems, Rome, Italy, 30 August 2009
51. *Heat Capacity and Entropy at the Glass Transition*, XVth International Congress on Rheology, Monterey, California, U.S.A., 3 - 8 August 2008

Recent Invited Seminars at Academic Institutions

Ranko Richert

73. *Title*, Prof. M. Guenza, Department of Chemistry, University of Oregon, Eugene, Oregon, U.S.A., 15 April 2017
72. *Does Entropy Control Structural Relaxation Times?*, Prof. K. Samwer, Physik, Universität Göttingen, Göttingen, Germany, 26 May 2015
71. *Nonlinear Dynamics and the True Structural Relaxation in Liquids*, Prof. K. Samwer, Physik, Universität Göttingen, Göttingen, Germany, 18 November 2013
70. *Nonlinear Dielectric Effects in Supercooled Liquids: High Frequency Regime*, Prof. R. Böhmer, Physik, Universität Dortmund, Dortmund, Germany, 5 November 2013
69. *Nonlinear Dielectric Effects in Glass-forming Materials*, Prof. A. Heuer, Physikalische Chemie, Universität Münster, Münster, Germany, 7 October 2013
68. *Non-linear Dielectric Effects: What Do We Learn?*, Prof. B. Roling, Fachbereich Physikalische Chemie, Universität Marburg, Marburg, Germany, 12 September 2013
67. *Non-linear Dielectric Effects in Supercooled Liquids: High Frequency Regime*, Prof. A. Loidl, Physik, Universität Augsburg, Augsburg, Germany, 10 September 2013
66. *Enthalpy Recovery in Glassy Materials: Heterogeneous versus Homogeneous Models*, Prof. S. Simon, Department of Chemical Engineering, Texas Tech University, Lubbock, Texas, U.S.A., 20 April 2012
65. *Nonlinear Dielectric Response and Enthalpy Relaxation in Supercooled Liquids*, Prof. M. Ediger, Department of Chemistry, University of Wisconsin, Madison, Wisconsin, U.S.A., 10 April 2012
64. *Nonlinear Dielectric Response and Heterogeneous Enthalpy Relaxation in Supercooled Liquids*, Prof. P. A. Rolla, Dipartimento di Fisica, Università di Pisa, Pisa, Italy, 30 June 2011
63. *Nonlinear Dielectric Response and Enthalpy Relaxation in Supercooled Liquids*, Dr. Chr. Alba-Simionesco, Laboratoire Léon Brillouin, CEA-Saclay, Gif-sur-Yvette, France, 4 March 2011
62. *Glass Transition Dynamics of Ionic Liquids*, Prof. E. W. Castner, Jr., Department of Chemistry and Chemical Biology, Rutgers State University of New Jersey, Piscataway, New Jersey, U.S.A., 6 April 2010
61. *Dielectric and Optical Approaches to Complex Dynamics in Simple Liquids*, Prof. V. Raicu, Department of Physics, University of Wisconsin, Milwaukee, Wisconsin, U.S.A., 12 December 2008
60. *Time-resolved Nonlinear Dielectric Responses in Supercooled Liquids*, Prof. F. Lequeux, Ecole Supérieure de Physique et de Chimie Industrielles, Paris, France, 11 July 2008
59. *Heterogeneous Dynamics In Supercooled Liquids*, Dr. Chr. Alba-Simionesco, Université Paris-Sud 11 and CNRS, Orsay, France, 9 July 2008
58. *Dielectric Study of the Dynamics in Alcohols*, Dr. Chr. Alba-Simionesco, Université Paris-Sud 11 and CNRS, Orsay, France, 3 July 2008

Recent Teaching Activities

Ranko Richert

ARIZONA STATE UNIVERSITY

Spring	2017	CHM 343	Elementary Physical Chemistry Laboratory
Fall	2016	CHM 117	General Chemistry for Majors I
Spring	2016	CHM 341	Elementary Physical Chemistry
Fall	2015	CHM 541 CHM 501	Advanced Thermodynamics (MSE 524) Topic: Physical / Solid State
Spring	2015	CHM 549	Advanced Topics in Physical Chemistry: "Kinetics and Dynamics in Liquids and Glasses"
Fall	2014	CHM 348	Advanced Physical Chemistry Laboratory I
Spring	2014	CHM 343	Elementary Physical Chemistry Laboratory
Spring	2013	CHM 549	Advanced Topics in Physical Chemistry: "Kinetics and Dynamics in Liquids and Glasses"
Fall	2012	CHM 341	Elementary Physical Chemistry
Spring	2012	CHM 343	Elementary Physical Chemistry Laboratory
Fall	2011	CHM 341	Elementary Physical Chemistry
Spring	2011	CHM 549	Advanced Topics in Physical Chemistry: "Kinetics and Dynamics in Liquids and Glasses"
Fall	2010	CHM 341	Elementary Physical Chemistry
Spring	2010	CHM 240	Computational Concepts in Chemistry
Fall	2009	CHM 341	Elementary Physical Chemistry
Fall	2008	CHM 341 CHM 341	Elementary Physical Chemistry, Section 1 Elementary Physical Chemistry, Section 2
Spring	2008	CHM 549	Viscous and Glassy Materials
Fall	2007	CHM 341	Elementary Physical Chemistry
Spring	2007	CHM 548	Chemical Kinetics and Dynamics
Spring	2006	CHM 547	Statistical Thermodynamics
Fall	2005	CHM 341	Elementary Physical Chemistry
Spring	2005	CHM 548	Chemical Kinetics and Dynamics

Coworkers

Ranko Richert

Post-Doctoral Associates:

Yu, Hai-Bin (April 2014 - September 2015, Arizona State University)
Huang, Wei (July 2012 - June 2014, Arizona State University, with C.A. Angell)
Singh, Lokendra P. (August 2011 – July 2013, Arizona State University)
Chen, Zhen (April 2011 - November 2012, Arizona State University, with C.A. Angell)
Ito, Naoki (October 2004 - September 2006, Arizona State University)
Minoguchi, Ayumi (September 2003 - August 2004, Arizona State University, with C.A. Angell)
Wang, Li-Min (June 2003 - July 2007, Arizona State University)
Yang, Min (August 2000 - July 2002, Arizona State University)
Mel'nichenko, Yuri B. (February 1994 - June 1995, MPI-P Mainz)

Graduate

Young-Gonzales, Amanda (November 2013 - , Arizona State University)

Master of Science

Roy, Soham (December 2011 - September 2013, Arizona State University)
Pathak, Ullas (February 2011 - December 2012, Arizona State University)
Wen, Wen (January 2008 - May 2009, Arizona State University)
Weinstein, Susan (December 2004 - December 2006, Arizona State University)
Duvvuri, Kalyan (February 2002 - December 2003, Arizona State University)

Undergraduate

Kim, Pyeongeun (January 2016 - May 2016, Arizona State University)
Khalife, Abidah (January 2011 - June 2011, Arizona State University)
Driving Hawk, Kathryn (June 2008 - August 2008, Arizona State University)
Shah, Sneha (January 2006 - May 2006, Arizona State University)
Shahriari, Shervin (January 2004 - September 2005, Arizona State University)
Duong, Lien-Thi (May 2002 - July 2002, Arizona State University)
Adams, Jason C. (August 2000 - December 2000, Arizona State University)
Fullmer, Nathan (August 2000 - May 2001, Arizona State University)
Woods, Amber M. (January 2000 - July 2000, Arizona State University)

Ph. D. awarded under my supervision:

Samanta, Subarna (April 2016, Arizona State University)
Huang, Wei (March 2009, Arizona State University)
He, Fang (May 2008, Arizona State University)
Wendt, Hauke (April 2000, MPI-P Mainz)
Wagner, Hermann (December 1999, MPI-P Mainz)
Yan, Xiaoling (November 1998, MPI-P Mainz)
Hansen, Hans Christian (June 1997, MPI-P Mainz)
Streck, Christof (May 1996, U Marburg)

Placke, Peter (April 1996, MPI-P Mainz)
Schüller, Joachim (November 1995, MPI-P Mainz)
Stickel, Franz-Josef (July 1995, MPI-P Mainz)
Schüssler, Stephan (February 1995, U Marburg)
Albrecht, Uwe (January 1994, U Marburg)
Wagener, Achim (November 1993, U Marburg)

Diploma degree awarded under my supervision:

Berger, Björn Thorleif (September 1996, MPI-P Mainz)
Bretz, Thomas (June 1996, MPI-P Mainz and Fachhochschule Rüdeshcim)
Wagner, Hermann (November 1995, MPI-P Mainz)
Streck, Christof (October 1992, U Marburg)
Schüssler, Stephan (December 1991, U Marburg)
Wagener, Achim (December 1990, U Marburg)

Visiting Scientists

Riechers, Birte (April 2014 - May 2014, Arizona State University)
Agapov, Alexander L. (March 2013 - April 2013, Arizona State University)
Gainaru, Catalin (February 2012 - March 2012, Arizona State University)
Frey, Sarah (October 2009 - November 2009, Arizona State University)
Iyer, Ganpathy (November 2009 - December 2010, Arizona State University)
Nielsen, Albena I. (February 2007 - March 2007, Arizona State University)
Prevosto, Daniele (August 2005 - October 2005, Arizona State University)
Mandanici, Andrea (May 2003 - June 2003, Arizona State University)
Engelbrecht, Christof (August 2002 - October 2002, Arizona State University)
Moreno-Flores, Susana (July 1998 - October 1998, MPI-P Mainz and U Mainz)
Reversat, Luc (January 1995 - June 1995, MPI-P Mainz)

Visiting Professor

Jeffrey, Kenneth R. (February 2003 - May 2003, Arizona State University)