



Poster Presentations

All posters remain on display in the foyer, Monday – Wednesday for continuous viewing. We kindly ask the presenting authors for their presence during the corresponding sessions:

- authors of posters with **odd numbers** during **session I** (Monday, 18:10 – 21:00)
- authors of posters with **even numbers** during **session II** (Tuesday, 12:10 – 14:30)

Poster abstracts may be found online in volume 24 of the *Diffusion-Fundamentals online journal*: http://diffusion.uni-leipzig.de/contents_vol24.php

No. Title and Authors

- | | |
|---|---|
| 1 | Mortal creepers searching for a target
<i>E. Abad, D. Campos, V. Méndez, S.B. Yuste and K. Lindenberg</i> |
| 2 | Reduction of p-Nitrophenol to p-Aminophenol over Supported Monometallic Catalysts as a Model Reaction for Mass-Transfer Investigations
<i>M. Al-Najj, M. Goepel, A. Roibu and R. Gläser</i> |
| 3 | Adsorption and Desorption Studies of Lysozyme by Thermosensitive Fe ₃ O ₄ -PNIPAM Nanocomposite via Fluorescence Spectroscopy
<i>E. Alveroglu, N. İlker, A. Gökçeören and K. Koç</i> |
| 4 | Evaluation of CO ₂ diffusion on aluminum based metal organic frameworks
<i>D. Angı, A. Güneş Yeresikli, F. Çakıcioğlu-Özkan</i> |
| 5 | Current fluctuations in boundary driven diffusive systems
<i>T. Becker, K. Nelissen and B. Cleuren</i> |
| 6 | Diffusion at tilt grain boundaries in polycrystalline porous materials
<i>J.S. Bhatt and M.-O. Coppens</i> |
| 7 | Ultra-slow diffusion in processes with preferential relocations to places visited in the past
<i>D. Boyer and I. Pineda</i> |
| 8 | Application of Maxwell-Stefan equations to characterize silicalite membranes
<i>D. Carter, B. Kruczek and F.H. Tezel</i> |
-

9	On the geometrical description of effective diffusion in confined environments: two-dimensional case <i>G. Chacón-Acosta, A. A. García-Chung and L. Dagdug</i>
10	The effect of crystal diversity of nanoporous materials on mass transfer studies <i>J. Cousin Saint Remi, A. Lauerer, G. Baron, C. Chmelik, J. Denayer and J. Kärger</i>
11	Spread of virus infections <i>V.L. de Rioja, J. Fort and N. Isern</i>
12	Composite fuel cell materials studied by MAS PFG NMR diffusometry and MAS NMR spectroscopy <i>N. Dvoyashkina, D. Freude, C.F. Seidler, M. Wark and J. Haase</i>
13	Study of the self-diffusion coefficient in the water-methanol binary mixture from the hydrogen bonding viewpoint using DOSY NMR <i>E. Fadaei and M. Tafazzoli</i>
14	A 2D system of hard needles: event oriented molecular dynamics <i>M.E. Fouladvand, A. Saiidi and M. Yarifard</i>
15	Water adsorption kinetics and diffusion in dense SAPO-34 layers on porous aluminium fibre structures – macroscopic measurements by a Volumetric Differential Pressure Step Method <i>G. Földner and A. Velte</i>
16	Diffusion of CO ₂ in 5Å-zeolites by Frequency Response – Impact of assumed adsorption mechanisms <i>M. Galinsky and C. Breitung</i>
17	On the geometrical description of the effective diffusion in confined environments: 3D channels <i>A.A. Garcia-Chung, G. Chacón-Acosta and L. Dagdug</i>
18	Chaotic diffusion in periodic lattices with repulsive potentials <i>S. Gil, J. Solanpää, T. Hämäläinen, E. Räsänen and R. Klages</i>
19	Diffusion in MOFs: The surface barrier phenomenon <i>L. Heinke</i>
20	Dynamic Light Scattering for the Determination of Thermal and Mutual Diffusivities of Liquids with Dissolved Gases in Chemical and Energy Engineering <i>A. Heller, T.M. Koller, M.H. Rausch, A. Leipertz and A.P. Fröba</i>
21	On the asymptotic behavior of distributions of work performed on diffusion particles in time-varying potentials <i>V. Holubec, D. Lips, A. Ryabov, P. Chvosta and P. Maass</i>

-
- 22 A model of anomalous extracellular diffusion: source location matters
J. Hrabe, F. Xiao, R. Colbourn and S. Hrabetova
-
- 23 Diffusive spread of substance through brain extracellular space in in vitro model of sleep and awake brain states
S. Hrabetova, A. Sherpa and F. Xiao
-
- 24 Fronts of language replacement
N. Isern and J. Fort
-
- 25 Computer modeling of atomic clusters formation in grain boundaries
A. Itckovich and B. Bokstein
-
- 26 Anomalous diffusion with heterogeneity in view of superstatistics
Y. Itto
-
- 27 Effective diffusion coefficient in one-dimensional heterogeneous solids: a comparison of continuous and discrete lattice models
J.R. Kalnins, E.A. Kotomin and V.N. Kuzovkov
-
- 28 Stories from the interior of porous materials – recorded by NMR
W. Kittler, H. Liu, F. Zong, S. A. Hertel, M. Nogueira d'Eurydice, X. Wang, P. Hosking, M. C. Simpson, T. A. Kuder, F. Laun, M. Hunter, S. Obruchkov and P. Galvosas
-
- 29 Phase transitions in driven single-file diffusion of suspended particles
J. Kurzhals, M. Dierl and P. Maass
-
- 30 Diffusion-controlled kinetics of metallic colloid formation in irradiated Al₂O₃, MgO and NaCl crystals
V.N. Kuzovkov, E.A. Kotomin, A.I. Popov and R. Vila
-
- 31 Diffusion and self-assembly of charged nanoparticles in polar media: a competition between short-range and long-range interactions
V.N. Kuzovkov, G. Zvejnieks and E.A. Kotomin
-
- 32 4 Coupled compartments – an analytical solution for diffusion and reaction kinetics
W. Larisch
-
- 33 Interference and IR-Microscopy for Studies of Nanoporous Materials: An Insightful View on Intracrystalline Molecular Transport
A. Lauerer, C. Chmelik, J. Haase and J. Kärger
-
- 34 Calibration of the diffusion coefficients of the FCS standard Rhodamine 6G (Rh6G) in aqueous solutions
G. Majer and K. Zick
-

35	Testing the (time) ^{1/4} quartic root Diffusion Law of Ceramics Rehydroxylation <i>M. Moinester, E. Piasezky and J. Kärger</i>
36	Transport of isopropanol in H-ZSM5 by impedance spectroscopy <i>T.Q. Nguyen, M. Glorius and C. Breitkopf</i>
37	Investigating the relationship between social learning efficiency and the diffusion of innovations <i>J. Ounsley, K. Laland and G. Ruxton</i>
38	Steady-state multicomponent gas diffusion in conical tubes and pores <i>F. Pille, J. Thöming and T. Veltzke</i>
39	Diffusion and molecular exchange in hollow core-shell silica nanocapsules <i>A. Pochert, D. Schneider, J. Haase, M. Lindén and R. Valiullin</i>
40	Modelling language shift in Carinthia, Austria <i>K. Prochazka and G. Vogl</i>
41	Kinetics of dissolution of liquid Pb nano-inclusions attached to a dislocation in aluminum <i>S.I. Prokofjev, E. Johnson and U. Dahmen</i>
42	Ragweed: diffusional spread and pollen load <i>R. Richter, M. Leitner and G. Vogl</i>
43	Dehydration diffusion of B(OH) ₄ -sodalite investigated by micro-Raman spectroscopy on single crystals and combined TG/IR on powders <i>C.H. Rüschler, F. Kiesel, A. Schulz, L. Schomborg and J.C. Buhl</i>
44	Diffusion Limitations and Effectiveness Factor of Mesoporous and Hierarchically Structured Catalysts for SCR-DeNO _x <i>E. Saraci, R. Arndt, J. Kullmann, D. Enke, T.-A. Meier, D. Belder, M.-O. Coppens and R. Gläser</i>
45	Diffusion coefficient as a function of mass for globular macromolecules <i>M.J. Saxton</i>
46	Collective dynamics in a multi-filament actin bundle <i>J. Schnauß, T. Golde, C. Schuldt, B. U. S. Schmidt, M. Glaser, D. Strehle, C. Heussinger and J. Käs</i>
47	Fluctuation dissipation theorem and Onsager coefficients in driven diffusion systems <i>B. Siemer, V. Holubec, P. Chvosta and P. Maass</i>
48	Dynamics of Linear and Cyclic Chains in Two Dimensions <i>A. Sikorski and P. Polanowski</i>

-
- 49** Modelling the geographical origin of rice cultivation in Asia using the Rice Archaeological Database
F. Silva, C.J. Stevens, A. Weisskopf, C. Castillo, L. Qin, A. Bevan and D.Q. Fuller
-
- 50** Reaction fronts and ambipolar chemical diffusion in oxide crystals
M. Sinder, Z. Burshtein and J. Pelleg
-
- 51** Adsorptive heat transformation with SAPO-34: diffusion of working fluids water, methanol and ethanol
T. Splith, C. Chmelik, F. Stallmach, S.K. Henninger, G. Földner, P.D. Kolokathis, E. Pantatosaki and G.K. Papadopoulos
-
- 52** Disentangling Sources of Anomalous Diffusion
E. Thiel, F. Flegel and I.M. Sokolov
-
- 53** Monitoring the interplay between diffusion and reaction during catalytic conversion in nanoporous materials
T. Titze, C. Chmelik, J. Kullmann, L. Prager, E. Miersemann, R. Gläser, D. Enke, J. Weitkamp and J. Kärger
-
- 54** Multicomponent gas diffusion in conical tubes
T. Veltzke, L. Kiewidt and J. Thöming
-
- 55** The application of inverse gas chromatography to investigate diffusion resistance in FCC catalysts
D. Wallenstein, C.M. Fougret, S. Brandt and U. Hartmann
-
- 56** Optimization of bifunctional catalysts in the presence of diffusion limitations, by using a single particle model and a fixed bed model
G. Ye and M.-O. Coppens
-
- 57** Diffusion across the Interface of an Liquid-Liquid System
T. Zeiner
-
- 58** A local composition model for the prediction of mutual diffusion coefficients in binary liquid mixtures from tracer diffusion coefficients
Q. Zhu, G.D. Moggridge and C. D'Agostino
-