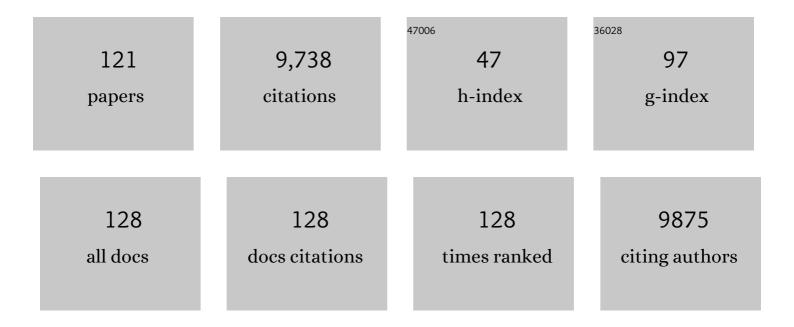
Arnout Imhof

List of Publications by Year in descending order

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Δρησιτ Ιμμοε

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Synthesis and Characterization of Anatase TiO2 Nanorods: Insights from Nanorods' Formation and Self-Assembly. Applied Sciences (Switzerland), 2022, 12, 1614. | 2.5 | 6 |
| 2 | Lowâ€dose liquid cell electron microscopy investigation of the complex etching mechanism of rodâ€shaped silica colloids. Nano Select, 2021, 2, 313-327. | 3.7 | 2 |
| 3 | Tunability of Interactions between the Core and Shell in Rattle-Type Particles Studied with Liquid-Cell Electron Microscopy. ACS Nano, 2021, 15, 11137-11149. | 14.6 | 7 |
| 4 | Photo-stability of lutein in surfactant-free lutein-zein composite colloidal particles. Food Chemistry: X, 2020, 5, 100071. | 4.3 | 13 |
| 5 | Smectic Liquid Crystalline Titanium Dioxide Nanorods: Reducing Attractions by Optimizing Ligand Density. Advanced Functional Materials, 2020, 30, 2005491. | 14.9 | 9 |
| 6 | Compartmentalization of gold nanoparticle clusters in hollow silica spheres and their assembly induced by an external electric field. Journal of Colloid and Interface Science, 2020, 566, 202-210. | 9.4 | 15 |
| 7 | Dynamic Electric Field Alignment of Metal–Organic Framework Microrods. Journal of the American Chemical Society, 2019, 141, 12989-12993. | 13.7 | 20 |
| 8 | Seeded-Growth of Silica Rods from Silica-Coated Particles. Langmuir, 2019, 35, 14913-14919. | 3.5 | 5 |
| 9 | Characterization of the Scattering and Absorption of Colored Zein Colloids in Optically Dense Dispersions. Langmuir, 2019, 35, 12091-12099. | 3.5 | 7 |
| 10 | Encapsulation of colorants by natural polymers for food applications. Coloration Technology, 2019, 135, 183-194. | 1.5 | 42 |
| 11 | Fully Biobased Highly Transparent Nanopaper with UV-Blocking Functionality. ACS Applied Polymer Materials, 2019, 1, 641-646. | 4.4 | 18 |
| 12 | Color-tunable particles through affinity interactions between water-insoluble protein and soluble dyes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 562, 154-160. | 4.7 | 6 |
| 13 | Shaping Silica Rods by Tuning Hydrolysis and Condensation of Silica Precursors. Chemistry of Materials, 2019, 31, 521-531. | 6.7 | 16 |
| 14 | Size and Optically Tunable Ethyl Cellulose Nanoparticles as Carriers for Organic UV Filters. ChemNanoMat, 2018, 4, 301-308. | 2.8 | 14 |
| 15 | White zein colloidal particles: synthesis and characterization of their optical properties on the single particle level and in concentrated suspensions. Soft Matter, 2018, 14, 2870-2878. | 2.7 | 17 |
| 16 | Impact of the electron beam on the thermal stability of gold nanorods studied by environmental transmission electron microscopy. Ultramicroscopy, 2018, 193, 97-103. | 1.9 | 35 |
| 17 | Fully-biobased UV-absorbing nanoparticles from ethyl cellulose and zein for environmentally friendly photoprotection. RSC Advances, 2018, 8, 25104-25111. | 3.6 | 10 |
| 18 | Microelectrophoresis of Silica Rods Using Confocal Microscopy. Langmuir, 2017, 33, 881-890. | 3.5 | 17 |

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|----|--|-----|-----------|
| 19 | Sculpting Silica Colloids by Etching Particles with Nonuniform Compositions. Chemistry of Materials, 2017, 29, 3304-3313. | 6.7 | 17 |
| 20 | Yolk/Shell Colloidal Crystals Incorporating Movable Cores with Their Motion Controlled by an External Electric Field. Langmuir, 2017, 33, 296-302. | 3.5 | 18 |
| 21 | Regiospecific Nucleation and Growth of Silane Coupling Agent Droplets onto Colloidal Particles. Journal of Physical Chemistry C, 2017, 121, 19989-19998. | 3.1 | 10 |
| 22 | Synthesis of Cone-Shaped Colloids from Rod-Like Silica Colloids with a Gradient in the Etching Rate. Langmuir, 2016, 32, 3970-3976. | 3.5 | 19 |
| 23 | Biobased Nanoparticles for Broadband UV Protection with Photostabilized UV Filters. ACS Applied Materials & Interfaces, 2016, 8, 32655-32660. | 8.0 | 38 |
| 24 | Random three-dimensional jammed packings of elastic shells acting as force sensors. Physical Review E, 2016, 93, 062901. | 2.1 | 5 |
| 25 | Phase diagram of binary colloidal rod-sphere mixtures from a 3D real-space analysis of sedimentation–diffusion equilibria. Soft Matter, 2016, 12, 9238-9245. | 2.7 | 25 |
| 26 | A New Procedure for Measuring Particle Length using the Resistive Pulse Technique with Irregular Single Micropores. Biophysical Journal, 2016, 110, 506a-507a. | 0.5 | 1 |
| 27 | Electric-Field-Induced Lock-and-Key Interactions between Colloidal Spheres and Bowls. Chemistry of Materials, 2016, 28, 1040-1048. | 6.7 | 19 |
| 28 | Pores with Undulating Opening Diameter can Determine Particles by Size and Shape. Biophysical Journal, 2015, 108, 329a. | 0.5 | 0 |
| 29 | Self-Assembly: Self-Organization of Anisotropic and Binary Colloids in Thermo-Switchable 1D Microconfinement (Part. Part. Syst. Charact. 3/2015). Particle and Particle Systems Characterization, 2015, 32, 270-270. | 2.3 | 0 |
| 30 | Confinement Induced Plastic Crystal-to-Crystal Transitions in Rodlike Particles with Long-Ranged Repulsion. Physical Review Letters, 2015, 115, 078301. | 7.8 | 33 |
| 31 | Long-Ranged Oppositely Charged Interactions for Designing New Types of Colloidal Clusters. Physical Review X, 2015, 5, . | 8.9 | 30 |
| 32 | Determination of the positions and orientations of concentrated rod-like colloids from 3D microscopy data. Journal of Physics Condensed Matter, 2015, 27, 194109. | 1.8 | 32 |
| 33 | Selfâ€Organization of Anisotropic and Binary Colloids in Thermoâ€ S witchable 1D Microconfinement. Particle and Particle Systems Characterization, 2015, 32, 313-320. | 2.3 | 11 |
| 34 | Bulk Scale Synthesis of Monodisperse PDMS Droplets above 3 $\hat{1}$ /4m and Their Encapsulation by Elastic Shells. Chemistry of Materials, 2015, 27, 1709-1719. | 6.7 | 16 |
| 35 | Jammed elastic shells – a 3D experimental soft frictionless granular system. Soft Matter, 2015, 11, 1800-1813. | 2.7 | 7 |
| 36 | Surface morphology control of cross-linked polymer particles via dispersion polymerization. Soft Matter, 2015, 11, 3589-3598. | 2.7 | 52 |

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|----|--|------|-----------|
| 37 | Nematic ordering of polarizable colloidal rods in an external electric field: theory and experiment. Physical Chemistry Chemical Physics, 2015, 17, 22423-22430. | 2.8 | 8 |
| 38 | Directed Self-Assembly of Micron-Sized Gold Nanoplatelets into Oriented Flexible Stacks with Tunable Interplate Distance. Nano Letters, 2015, 15, 5617-5623. | 9.1 | 22 |
| 39 | Pores with Longitudinal Irregularities Distinguish Objects by Shape. ACS Nano, 2015, 9, 4390-4397. | 14.6 | 55 |
| 40 | Entropy-driven formation of large icosahedral colloidal clusters by spherical confinement. Nature Materials, 2015, 14, 56-60. | 27.5 | 237 |
| 41 | Site-specific growth of polymers on silica rods. Soft Matter, 2014, 10, 9644-9650. | 2.7 | 25 |
| 42 | Colloidal Silica Rods: Material Properties and Fluorescent Labeling. Particle and Particle Systems Characterization, 2014, 31, 706-713. | 2.3 | 43 |
| 43 | Fabrication of Polyhedral Particles from Spherical Colloids and Their Selfâ€Assembly into Rotator Phases. Angewandte Chemie - International Edition, 2014, 53, 13830-13834. | 13.8 | 36 |
| 44 | An experimental and simulation study on the self-assembly of colloidal cubes in external electric fields. Soft Matter, 2014, 10, 9110-9119. | 2.7 | 35 |
| 45 | Switching plastic crystals of colloidal rods with electric fields. Nature Communications, 2014, 5, 3092. | 12.8 | 103 |
| 46 | Orientation of a dielectric rod near a planar electrode. Physical Chemistry Chemical Physics, 2014, 16, 22575-22582. | 2.8 | 10 |
| 47 | Effect of external electric fields on the phase behavior of colloidal silica rods. Soft Matter, 2014, 10, 6249-6255. | 2.7 | 42 |
| 48 | Unloading and Reloading Colloidal Microcapsules with Apolar Solutions by Controlled and Reversible Buckling. Langmuir, 2014, 30, 2385-2393. | 3.5 | 26 |
| 49 | Manipulating the self assembly of colloids in electric fields. European Physical Journal: Special Topics, 2013, 222, 2895-2909. | 2.6 | 69 |
| 50 | Retention and remobilization of colloids during steady-state and transient two-phase flow. Water Resources Research, 2013, 49, 8005-8016. | 4.2 | 22 |
| 51 | Flow-induced particle migration in microchannels for improved microfiltration processes. Microfluidics and Nanofluidics, 2013, 15, 451-465. | 2.2 | 22 |
| 52 | In situ hard X-ray microscopy of self-assembly in colloidal suspensions. RSC Advances, 2013, 3, 15670. | 3.6 | 38 |
| 53 | Study of colloids transport during two-phase flow using a novel polydimethylsiloxane micro-model. Journal of Colloid and Interface Science, 2013, 401, 141-147. | 9.4 | 15 |
| 54 | Colloidal Clusters by Using Emulsions and Dumbbell‣haped Particles: Experiments and Simulations. Angewandte Chemie - International Edition, 2013, 52, 6709-6712. | 13.8 | 39 |

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|----|---|------|-----------|
| 55 | Direct Observation of the Formation of Liquid Protrusions on Polymer Colloids and their Coalescence. ACS Applied Materials & Interfaces, 2013, 5, 4277-4284. | 8.0 | 25 |
| 56 | Synthesis of Monodisperse, Highly Cross-Linked, Fluorescent PMMA Particles by Dispersion Polymerization. Langmuir, 2012, 28, 6776-6785. | 3.5 | 81 |
| 57 | Novel Mini-Reactor of Silicone Oil Droplets for Synthesis of Morphology-Controlled Polymer Particles. Langmuir, 2012, 28, 17642-17646. | 3.5 | 14 |
| 58 | Synthesis of fluorescent monodisperse non-spherical dumbbell-like model colloids. Journal of Materials Chemistry, 2012, 22, 21893. | 6.7 | 52 |
| 59 | A qualitative confocal microscopy study on a range of colloidal processes by simulating microgravity conditions through slow rotations. Soft Matter, 2012, 8, 6979. | 2.7 | 24 |
| 60 | Directed Orientation of Asymmetric Composite Dumbbells by Electric Field Induced Assembly. Langmuir, 2012, 28, 6546-6550. | 3.5 | 40 |
| 61 | Colloidal Analogues of Charged and Uncharged Polymer Chains with Tunable Stiffness. Angewandte Chemie - International Edition, 2012, 51, 11249-11253. | 13.8 | 94 |
| 62 | Self-assembly of colloidal particles into strings in a homogeneous external electric or magnetic field. Journal of Physics Condensed Matter, 2012, 24, 464113. | 1.8 | 35 |
| 63 | Phase behavior of colloidal silica rods. Faraday Discussions, 2012, 159, 181. | 3.2 | 124 |
| 64 | Oscillatory shear-induced 3D crystalline order in colloidal hard-sphere fluids. Soft Matter, 2012, 8, 6931. | 2.7 | 64 |
| 65 | Bonding Assembled Colloids without Loss of Colloidal Stability. Advanced Materials, 2012, 24, 412-416. | 21.0 | 40 |
| 66 | Band Formation in Mixtures of Oppositely Charged Colloids Driven by an ac Electric Field. Physical Review Letters, 2011, 106, 228303. | 7.8 | 74 |
| 67 | Seeded Growth of Titania Colloids with Refractive Index Tunability and Fluorophore-Free Luminescence. Langmuir, 2011, 27, 1626-1634. | 3.5 | 23 |
| 68 | Synthesis of Monodisperse, Rodlike Silica Colloids with Tunable Aspect Ratio. Journal of the American Chemical Society, 2011, 133, 2346-2349. | 13.7 | 366 |
| 69 | Measuring colloidal forces from particle position deviations inside an optical trap. Soft Matter, 2011, 7, 3462. | 2.7 | 23 |
| 70 | Electrophoresis of concentrated colloidal dispersions in low-polar solvents. Journal of Colloid and Interface Science, 2011, 361, 443-455. | 9.4 | 32 |
| 71 | Lane formation in driven mixtures of oppositely charged colloids. Soft Matter, 2011, 7, 2352. | 2.7 | 115 |
| 72 | Synthesis of Hollow Asymmetrical Silica Dumbbells with a Movable Inner Core. Langmuir, 2010, 26, 5208-5212. | 3.5 | 59 |

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| 73 | Directed Self-Assembly of Colloidal Dumbbells with an Electric Field. Langmuir, 2010, 26, 14466-14471. | 3.5 | 92 |
| 74 | Phase Behavior and Structure of a New Colloidal Model System of Bowl-Shaped Particles. Nano Letters, 2010, 10, 1907-1911. | 9.1 | 95 |
| 75 | A General Method to Coat Colloidal Particles with Titania. Langmuir, 2010, 26, 9297-9303. | 3.5 | 85 |
| 76 | Tuning the mechanical properties of silica microcapsules. Physical Chemistry Chemical Physics, 2010, 12, 15392. | 2.8 | 47 |
| 77 | Melting and crystallization of colloidal hard-sphere suspensions under shear. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10564-10569. | 7.1 | 113 |
| 78 | Dynamics of colloidal crystals in shear flow. Soft Matter, 2009, 5, 1060. | 2.7 | 37 |
| 79 | Self-Assembly of Colloids with Liquid Protrusions. Journal of the American Chemical Society, 2009, 131, 1182-1186. | 13.7 | 188 |
| 80 | BaTiO ₃ , SrTiO ₃ , CaTiO ₃ , and Ba _{<i>x</i>} Sr _{1â^'<i>x</i>} TiO ₃ Particles: A General Approach for Monodisperse Colloidal Perovskites. Chemistry of Materials, 2009, 21, 3002-3007. | 6.7 | 87 |
| 81 | Synthesis of Eccentric Titaniaâ^'Silica Coreâ^'Shell and Composite Particles. Chemistry of Materials, 2009, 21, 979-984. | 6.7 | 61 |
| 82 | Anisotropic colloids through non-trivial buckling. European Physical Journal E, 2008, 27, 13-20. | 1.6 | 70 |
| 83 | Phase separating colloid polymer mixtures in shear flow. Journal of Physics Condensed Matter, 2008, 20, 404208. | 1.8 | 15 |
| 84 | Elastic properties of hollow colloidal particles. Physical Review E, 2008, 78, 051401. | 2.1 | 54 |
| 85 | A new parallel plate shear cell for in situ real-space measurements of complex fluids under shear flow. Review of Scientific Instruments, 2007, 78, 103902. | 1.3 | 28 |
| 86 | Encapsulation of emulsion droplets by organo–silica shells. Journal of Colloid and Interface Science, 2007, 308, 121-129. | 9.4 | 47 |
| 87 | Deformable Hollow Hybrid Silica/Siloxane Colloids by Emulsion Templating. Langmuir, 2006, 22, 4343-4352. | 3.5 | 141 |
| 88 | Nematic-isotropic spinodal decomposition kinetics of rodlike viruses. Physical Review E, 2006, 73, 011412. | 2.1 | 29 |
| 89 | Microradian X-ray diffraction in colloidal photonic crystals. Journal of Applied Crystallography, 2006, 39, 137-144. | 4.5 | 94 |
| 90 | Characterization of Photonic Colloidal Single Crystals by Microradian X-ray Diffraction. Advanced Materials, 2006, 18, 1662-1666. | 21.0 | 61 |

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| 91 | Suppression of Thermally Excited Capillary Waves by Shear Flow. Physical Review Letters, 2006, 97, 038301. | 7.8 | 54 |
| 92 | Ionic colloidal crystals of oppositely charged particles. Nature, 2005, 437, 235-240. | 27.8 | 902 |
| 93 | Synthesis of Monodisperse Colloidal Spheres, Capsules, and Microballoons by Emulsion Templating. Advanced Materials, 2005, 17, 924-928. | 21.0 | 285 |
| 94 | Kinetic pathways of the nematic–isotropic phase transition as studied by confocal microscopy on rod-like viruses. Journal of Physics Condensed Matter, 2005, 17, S3609-S3618. | 1.8 | 23 |
| 95 | Confocal microscopy of colloidal dispersions in shear flow using a counter-rotating cone–plate shear cell. Journal of Physics Condensed Matter, 2004, 16, S3917-S3927. | 1.8 | 55 |
| 96 | Three-Dimensional Photonic Crystals Made from Colloids. , 2004, , 423-454. | | 3 |
| 97 | Experimental determination of the effective refractive index in strongly scattering media. Optics Communications, 2003, 220, 17-21. | 2.1 | 27 |
| 98 | A General Method To Coat Colloidal Particles with Silica. Langmuir, 2003, 19, 6693-6700. | 3.5 | 1,087 |
| 99 | Time-resolved pulse propagation in a strongly scattering material. Physical Review E, 2003, 68, 016604. | 2.1 | 80 |
| 100 | Preparation and Characterization of Titania-Coated Polystyrene Spheres and Hollow Titania Shells. Langmuir, 2001, 17, 3579-3585. | 3.5 | 361 |
| 101 | Experimental Probes of the Optical Properties of Photonic Crystals. , 2001, , 191-218. | | 5 |
| 102 | Photonic Crystals from Emulsion Templates. Advanced Materials, 2001, 13, 447-450. | 21.0 | 118 |
| 103 | Propagation of Light in Disordered Semiconductor Materials. , 2001, , 447-473. | | 11 |
| 104 | <title>Ordered macroporous rutile titanium dioxide by emulsion templating</title> . , 2000, , . | | 1 |
| 105 | Large Dispersive Effects near the Band Edges of Photonic Crystals. Physical Review Letters, 1999, 83, 2942-2945. | 7.8 | 150 |
| 106 | Preparation of Titania Foams. Advanced Materials, 1999, 11, 311-314. | 21.0 | 52 |
| 107 | Spectroscopy of Fluorescein (FITC) Dyed Colloidal Silica Spheres. Journal of Physical Chemistry B, 1999, 103, 1408-1415. | 2.6 | 232 |
| 108 | Uniform Macroporous Ceramics and Plastics by Emulsion Templating. Advanced Materials, 1998, 10, 697-700. | 21.0 | 212 |

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| 109 | Uniform Macroporous Ceramics and Plastics by Emulsion Templating. Chemical Engineering and Technology, 1998, 21, 682-685. | 1.5 | 17 |
| 110 | Macroporous Materials with Uniform Pores by Emulsion Templating. Materials Research Society Symposia Proceedings, 1997, 497, 167. | 0.1 | 0 |
| 111 | Ordered macroporous materials by emulsion templating. Nature, 1997, 389, 948-951. | 27.8 | 1,116 |
| 112 | Phase behaviour and long-time self-diffusion in a binary hard sphere dispersion. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1997, 122, 53-61. | 4.7 | 9 |
| 113 | Stability of Nonaqueous Emulsions. Journal of Colloid and Interface Science, 1997, 192, 368-374. | 9.4 | 69 |
| 114 | Strong effects of photonic band structures on the diffraction of colloidal crystals. Physical Review B, 1996, 53, 16231-16235. | 3.2 | 191 |
| 115 | Influence of Optical Band Structures on the Diffraction of Photonic Colloidal Crystals. , 1996, , 107-118. | | 2 |
| 116 | Long-time self-diffusion in binary colloidal hard-sphere dispersions. Physical Review E, 1995, 52, 6344-6357. | 2.1 | 69 |
| 117 | Experimental Phase Diagram of a Binary Colloidal Hard-Sphere Mixture with a Large Size Ratio. Physical Review Letters, 1995, 75, 1662-1665. | 7.8 | 230 |
| 118 | A comparison between the longâ€time selfâ€diffusion and low shear viscosity of concentrated dispersions of charged colloidal silica spheres. Journal of Chemical Physics, 1994, 100, 2170-2181. | 3.0 | 87 |
| 119 | Shear Melting of Colloidal Crystals of Charged Spheres Studied with Rheology and Polarizing Microscopy. Langmuir, 1994, 10, 3477-3484. | 3.5 | 61 |
| 120 | Three-dimensional imaging of submicrometer colloidal particles in concentrated suspensions using confocal scanning laser microscopy. Langmuir, 1992, 8, 1514-1517. | 3.5 | 89 |
| 121 | Quantum efficiencies of luminescent Eu3+ centers in CaO. Journal of Solid State Chemistry, 1992, 96, 311-317. | 2.9 | 33 |