

Thomas Luxbacher

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5015937/publications.pdf>

Version: 2024-02-01

63
papers

1,727
citations

279798

23
h-index

302126

39
g-index

65
all docs

65
docs citations

65
times ranked

2596
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of membrane fouling by (pretreated) surface water on rejection of pharmaceutically active compounds (PhACs) by nanofiltration membranes. <i>Journal of Membrane Science</i> , 2009, 330, 90-103.	8.2	152
2	Effect of surface structure on protein adsorption to biphasic calcium-phosphate ceramics in vitro and in vivo. <i>Acta Biomaterialia</i> , 2009, 5, 1311-1318.	8.3	121
3	Interpretation of Electrokinetic Measurements with Porous Films: Role of Electric Conductance and Streaming Current within Porous Structure. <i>Langmuir</i> , 2010, 26, 10882-10889.	3.5	80
4	Dehydration and Rehydration Processes in Microporous Rare-Earth Dicarboxylates: A Study by Thermogravimetry, Thermodiffraction and Optical Spectroscopy. <i>Journal of Solid State Chemistry</i> , 1999, 145, 580-586.	2.9	78
5	Indirect determination of zeta potential at high ionic strength: Specific application to semipermeable polymeric membranes. <i>Journal of Membrane Science</i> , 2015, 478, 58-64.	8.2	69
6	Modification of ceramic microfilters with colloidal zirconia to promote the adsorption of viruses from water. <i>Water Research</i> , 2008, 42, 1726-1734.	11.3	67
7	On the role of Nb-related sites of an oxidized $\hat{2}$ -TiNb alloy surface in its interaction with osteoblast-like MG-63 cells. <i>Materials Science and Engineering C</i> , 2013, 33, 1636-1645.	7.3	63
8	Biocompatibility and sp ³ /sp ² ratio of laser created DLC films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 169, 89-93.	3.5	62
9	Chitosan/glycosaminoglycan scaffolds for skin repairation. <i>Carbohydrate Polymers</i> , 2019, 220, 219-227.	10.2	59
10	Implications of humic acid, inorganic carbon and speciation on fluoride retention mechanisms in nanofiltration and reverse osmosis. <i>Journal of Membrane Science</i> , 2017, 528, 82-94.	8.2	50
11	Electrokinetic characterization of flat sheet membranes by streaming current measurement. <i>Desalination</i> , 2006, 199, 376-377.	8.2	47
12	Organic fouling control through magnetic ion exchange nanofiltration (MIEXâ€NF) in water treatment. <i>Journal of Membrane Science</i> , 2018, 549, 474-485.	8.2	47
13	Nanofiltration membranes modified with alkoxysilanes: Surface characterization using zeta-potential. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 422, 110-117.	4.7	46
14	MS2 bacteriophage inactivation using a N-doped TiO ₂ -coated photocatalytic membrane reactor: Influence of water-quality parameters. <i>Chemical Engineering Journal</i> , 2018, 354, 995-1006.	12.7	42
15	Morphological zeta-potential variation of nanoporous anodic alumina layers and cell adherence. <i>Acta Biomaterialia</i> , 2014, 10, 968-974.	8.3	40
16	Zeta potential determination of polymeric materials using two differently designed measuring cells of an electrokinetic analyzer. <i>Acta Chimica Slovenica</i> , 2010, 57, 700-6.	0.6	40
17	Influence of O ₂ and CO ₂ plasma treatment on the deposition of chitosan onto polyethylene terephthalate (PET) surfaces. <i>International Journal of Adhesion and Adhesives</i> , 2014, 48, 168-176.	2.9	39
18	Nanocellulose production from recycled paper mill sludge using ozonation pretreatment followed by recyclable maleic acid hydrolysis. <i>Carbohydrate Polymers</i> , 2019, 216, 343-351.	10.2	39

#	ARTICLE	IF	CITATIONS
19	Electrical activity of ferroelectric biomaterials and its effects on the adhesion, growth and enzymatic activity of human osteoblast-like cells. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 175403.	2.8	38
20	<title>Nanoimprint lithography with a commercial 4-in. bond system for hot embossing</title>. , 2001, 4343, 427.		34
21	Antibacterial properties of Ag-doped hydroxyapatite layers prepared by PLD method. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 101, 615-620.	2.3	34
22	Physicochemical Characterization of Packaging Foils Coated by Chitosan and Polyphenols Colloidal Formulations. <i>International Journal of Molecular Sciences</i> , 2020, 21, 495.	4.1	34
23	Properties of Au nanolayer sputtered on polyethyleneterephthalate. <i>Materials Letters</i> , 2010, 64, 611-613.	2.6	33
24	Solar Photocatalytic Degradation of Trace Organic Pollutants in Water by Bi(O)-Doped Bismuth Oxyhalide Thin Films. <i>ACS Omega</i> , 2018, 3, 10858-10865.	3.5	27
25	Zeta Potential of Photochemically Modified Polymer Surfaces. , 0, , 54-61.		26
26	Diamond/graphite content and biocompatibility of DLC films fabricated by PLD. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 101, 579-583.	2.3	26
27	Impact of Porosity and Electrolyte Composition on the Surface Charge of Hydroxyapatite Biomaterials. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 908-917.	8.0	23
28	Effect of Chitin Nanofibrils on Biocompatibility and Bioactivity of the Chitosan-Based Composite Film Matrix Intended for Tissue Engineering. <i>Materials</i> , 2019, 12, 1874.	2.9	23
29	Effective Removal of Acid Dye in Synthetic and Silk Dyeing Effluent: Isotherm and Kinetic Studies. <i>ACS Omega</i> , 2022, 7, 118-128.	3.5	22
30	Effect of surface wettability and charge on protein adsorption onto implantable alginate-chitosan-alginate microcapsule surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 92A, 1357-1365.	4.0	21
31	Time-dependent effects on physicochemical and surface properties of PHBV fibers and films in relation to their interactions with fibroblasts. <i>Applied Surface Science</i> , 2021, 545, 148983.	6.1	21
32	A study on the performance of hyaluronic acid immobilized chitosan film. <i>Biomedical Materials (Bristol)</i> , 2009, 4, 035009.	3.3	18
33	Relationship of Surface Hydrophilicity, Charge, and Roughness of PET Foils Stimulated by Incipient Alkaline Hydrolysis. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 2116-2127.	8.0	18
34	Fast cross relaxation in lanthanide hexachloroelpasolites: application of the shell model. <i>Chemical Physics Letters</i> , 1995, 241, 103-108.	2.6	15
35	Applicability of electro-osmotic flow for the analysis of the surface zeta potential. <i>RSC Advances</i> , 2020, 10, 6777-6789.	3.6	15
36	Competitive cross-relaxation and energy transfer within the shell model: The case of Cs ₂ NaSm _x Eu _y Y _{1-x-y} Cl ₆ . <i>Journal of Luminescence</i> , 1997, 71, 177-188.	3.1	14

#	ARTICLE	IF	CITATIONS
37	Cross relaxation from the $4G_{5/2}$ state of Sm^{3+} in $\text{Cs}_2\text{NaSm}_x\text{Y}_{1-x}\text{Cl}_6$ and $\text{Cs}_2\text{NaSm}_x\text{Gd}_{1-x}\text{Cl}_6$: a comparison of multipole-multipole and anisotropic dielectric shell models. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 9683-9692.	1.8	12
38	Two-photon spectroscopy of samarium(III) in the elpasolite $\text{Cs}_2\text{NaYCl}_6:\text{Sm}^{3+}$. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 7867-7879.	1.8	12
39	Assessing the quality of raw cotton knitted fabrics by their streaming potential coefficients. <i>Cellulose</i> , 2014, 21, 3829-3839.	4.9	11
40	Catching Speedy Gonzales: Driving forces for Protein Film Formation on Silicone Rubber Tubing During Pumping. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 1577-1586.	3.3	10
41	Investigating the time-dependent zeta potential of wood surfaces. <i>Journal of Colloid and Interface Science</i> , 2018, 518, 165-173.	9.4	9
42	Polysaccharide-Based Bilayer Coatings for Biofilm-Inhibiting Surfaces of Medical Devices. <i>Materials</i> , 2021, 14, 4720.	2.9	9
43	Charging behaviour at the carbonate rock-water interface in low salinity waterflooding: Estimation of zeta potential in high salinity brines. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 1226-1234.	1.7	9
44	Electrokinetics in undeveloped flows. <i>Journal of Colloid and Interface Science</i> , 2013, 410, 195-201.	9.4	8
45	Evolution of calcite surfaces upon thermal decomposition, characterized by electrokinetics, in-situ XRD, and SEM. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 624, 126761.	4.7	8
46	Vibronic intensities in the optical absorption spectra of Pr^{3+} in $\text{Cs}_2\text{NaPr}_x\text{Y}_{1-x}\text{Cl}_6$: concentration and temperature dependence. <i>Chemical Physics Letters</i> , 1995, 232, 571-575.	2.6	7
47	Temperature dependence of luminescence decay from the state of Sm^{3+} in $\text{Cs}_2\text{NaSm}_x\text{Y}_{1-x}\text{Cl}_6$ and $\text{Cs}_2\text{NaSm}_x\text{Eu}_y\text{Y}_{1-x-y}\text{Cl}_6$. <i>Journal of Luminescence</i> , 1997, 71, 313-319.	3.1	6
48	Influence of the structure of polymer fiber composites on the analysis of the zeta potential. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46227.	2.6	6
49	Analytical Assessment of the Thermal Decomposition of Cotton-modacryl Knitted Fabrics. <i>Fibres and Textiles in Eastern Europe</i> , 2017, 25, 59-67.	0.5	6
50	Spectroscopy of hexanitritoelpasolite crystals: the effect of the rare-earth ion on the progressions in the nitrite vibration. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1998, 54, 2045-2049.	3.9	5
51	Electrokinetic behaviour of porous TiO_2 -coated implants. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 191.	3.6	5
52	Insight into the Surface Properties of Wood Fiber-Polymer Composites. <i>Polymers</i> , 2021, 13, 1535.	4.5	5
53	Energy transfer in high-symmetry crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1998, 54, 2027-2034.	3.9	4
54	Theoretical manifestation of the shell model for energy transfer. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1998, 54, 2099-2103.	3.9	4

#	ARTICLE	IF	CITATIONS
55	Adsorptive Removal of Heavy Metal Ions by Waste Wool. Journal of Natural Fibers, 2022, 19, 14490-14503.	3.1	4
56	Photolithography on micromachined 3D surfaces using spray coating technology of photoresist. , 2001, 4404, 245.		3
57	Competitive cross-relaxation and energy transfer in Cs ₂ NaSm _x Eu _y Gd _{1-x-y} Cl ₆ . , 1997, , .		1
58	Cross relaxation from the ⁴ G _{5/2} state of Sm ³⁺ in Cs ₂ NaSm _x Y _{1-x} Cl ₆ . Journal of Applied Spectroscopy, 1995, 62, 820-826.	0.7	0
59	Vibronic intensities in the optical absorption spectra of Pr ³⁺ in Cs ₂ NaPr _x Y _{1-x} Cl ₆ : concentration and temperature dependence. Journal of Applied Spectroscopy, 1995, 62, 827-831.	0.7	0
60	Up-conversion and ligand-metal coupling in Cs ₂ NaEr(NO ₂) ₆ . , 1997, , .		0
61	The angular dependence of the multipole-multipole interaction for energy transfer. Theoretical Chemistry Accounts, 1999, 103, 105-108.	1.4	0
62	Electrokinetic properties of natural fibres. , 2020, , 323-353.		0
63	Temperature Dependence of Luminescence Decay from the ⁴ G _{5/2} State of Sm ³⁺ in Cs ₂ NaSm _x Y _{1-x} Cl ₆ and Cs ₂ NaSm _x Eu _y Y _{1-x-y} Cl ₆ . Acta Physica Polonica A, 1996, 90, 307-313.	0.5	0