Bruno Frka-Petesic

List of Publications by Year in Descending Order

32 papers	1,309 citations	19 h-index	33 g-index
33 ext. papers	1,624 ext. citations	12.2 avg, IF	4.92 L-index

#	Paper	IF	Citations
32	Modeling the cholesteric pitch of apolar cellulose nanocrystal suspensions using a chiral hard-bundle model.. *Journal of Chemical Physics*, **2022**, 156, 014904	3.9	4
31	Chiral self-assembly of cellulose nanocrystals is driven by crystallite bundles.. *Nature Communications*, **2022**, 13, 2657	17.4	6
30	Large-scale fabrication of structurally coloured cellulose nanocrystal films and effect pigments. *Nature Materials*, **2021**,	27	23
29	Co-Assembly of Cellulose Nanocrystals and Silk Fibroin into Photonic Cholesteric Films. *Advanced Sustainable Systems*, **2021**, 5, 2000272	5.9	7
28	Effect of thermal treatments on chiral nematic cellulose nanocrystal films. *Carbohydrate Polymers*, **2021**, 272, 118404	10.3	1
27	Small-Angle Neutron Scattering Reveals the Structural Details of Thermosensitive Polymer-Grafted Cellulose Nanocrystal Suspensions. *Langmuir*, **2020**, 36, 8511-8519	4	6
26	Retrieving the Coassembly Pathway of Composite Cellulose Nanocrystal Photonic Films from their Angular Optical Response. *Advanced Materials*, **2020**, 32, e1906889	24	20
25	Cellulose Nanocrystal-Templated Tin Dioxide Thin Films for Gas Sensing. *ACS Applied Materials & Interfaces*, **2020**, 12, 12639-12647	9.5	13
24	Hyperspectral Imaging of Photonic Cellulose Nanocrystal Films: Structure of Local Defects and Implications for Self-Assembly Pathways. *ACS Nano*, **2020**, 14, 15361-15373	16.7	13
23	Cellulose, so much more than paper. *Nature Photonics*, **2019**, 13, 365-367	33.9	38
22	Controlling the Self-Assembly Behavior of Aqueous Chitin Nanocrystal Suspensions. *Biomacromolecules*, **2019**, 20, 2830-2838	6.9	26
21	The angular optical response of cellulose nanocrystal films explained by the distortion of the arrested suspension upon drying. *Physical Review Materials*, **2019**, 3,	3.2	27
20	Visual Appearance of Chiral Nematic Cellulose-Based Photonic Films: Angular and Polarization Independent Color Response with a Twist. *Advanced Materials*, **2019**, 31, e1905151	24	30
19	Printing of Responsive Photonic Cellulose Nanocrystal Microfilm Arrays. *Advanced Functional Materials*, **2019**, 29, 1804531	15.6	66
18	The Self-Assembly of Cellulose Nanocrystals: Hierarchical Design of Visual Appearance. *Advanced Materials*, **2018**, 30, e1704477	24	240
17	Dynamically Controlled Iridescence of Cholesteric Cellulose Nanocrystal Suspensions Using Electric Fields. *Advanced Materials*, **2017**, 29, 1606208	24	92
16	Controlling the Photonic Properties of Cholesteric Cellulose Nanocrystal Films with Magnets. *Advanced Materials*, **2017**, 29, 1701469	24	117

15	Hierarchical Self-Assembly of Cellulose Nanocrystals in a Confined Geometry. *ACS Nano*, **2016**, 10, 8443-9	16.7	122
14	Biocompatible and Sustainable Optical Strain Sensors for Large-Area Applications. *Advanced Optical Materials*, **2016**, 4, 1950-1954	8.1	65
13	Shape Memory Cellulose-Based Photonic Reflectors. *ACS Applied Materials & Interfaces*, **2016**, 8, 31935-31940	9.5	54
12	Aggregation of Antibody Drug Conjugates at Room Temperature: SAXS and Light Scattering Evidence for Colloidal Instability of a Specific Subpopulation. *Langmuir*, **2016**, 32, 4848-61	4	19
11	Negative Diamagnetic Anisotropy and Birefringence of Cellulose Nanocrystals. *Macromolecules*, **2015**, 48, 8844-8857	5.5	61
10	First experimental evidence of a giant permanent electric-dipole moment in cellulose nanocrystals. *Europhysics Letters*, **2014**, 107, 28006	1.6	71
9	Dynamics of paramagnetic nanostructured rods under rotating field. *Journal of Magnetism and Magnetic Materials*, **2011**, 323, 1309-1313	2.8	39
8	Incorporation of magnetic nanoparticles into lamellar polystyrene-b-poly(n-butyl methacrylate) diblock copolymer films: Influence of the chain end-groups on nanostructuration. *Polymer*, **2010**, 51, 4673-4685	3.9	10
7	Orientational behavior of an assembly of superparmagnetic rods. *Physics Procedia*, **2010**, 9, 15-19		0
6	Neutron Reflectivity on Polymer Multilayers Doped with Magnetic Nanoparticles. *Solid State Phenomena*, **2009**, 152-153, 194-197	0.4	
5	Stabilization and controlled association of superparamagnetic nanoparticles using block copolymers. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 667-670	2.8	11
4	Reorientation kinetics of superparamagnetic nanostructured rods. *Journal of Physics Condensed Matter*, **2008**, 20, 494216	1.8	6
3	Universal scattering behavior of coassembled nanoparticle-polymer clusters. *Physical Review E*, **2008**, 78, 040401	2.4	26
2	Electrostatic Co-Assembly of Iron Oxide Nanoparticles and Polymers: Towards the Generation of Highly Persistent Superparamagnetic Nanorods. *Advanced Materials*, **2008**, 20, 3877-3881	24	89
1	Revealing the Structural Coloration of Self-Assembled Chitin Nanocrystal Films. *Advanced Materials*,2203300	24	3