David Chapron

List of Publications by Year
in descending order

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		759055	713332
30	445	12	21
papers	citations	h-index	g-index

30	30	30	632
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental and multiscale modeling of thermal conductivity and elastic properties of PLA/expanded graphite polymer nanocomposites. Thermochimica Acta, 2013, 552, 106-113.	1.2	74
2	Quasi-phase-matched gratings printed by all-optical poling in polymer films. Optics Letters, 2002, 27, 2028.	1.7	53
3	In situ monitoring of styrene polymerization using Raman spectroscopy. Multiâ€scale approach of homogeneous and heterogeneous polymerization processes. Journal of Raman Spectroscopy, 2013, 44, 909-915.	1.2	35
4	Development of new approach based on Raman spectroscopy to study the dispersion of expanded graphite in poly(lactide). Polymer Degradation and Stability, 2011, 96, 2040-2047.	2.7	27
5	Ca doping in BaTiO3 crystal: Effect on the Raman spectra and vibrational modes. Journal of Applied Physics, 2017, 121, .	1.1	24
6	Characterization of oxygen vacancies in SrTiO3 by means of anelastic and Raman spectroscopy. Journal of Applied Physics, 2019, 126, .	1.1	23
7	Thermal behavior of PVDF/PMMA blends by differential scanning calorimetry and vibrational spectroscopies (Raman and Fourier-Transform Infrared). Polymer Testing, 2015, 48, 120-124.	2.3	21
8	Modular, Flexible, and Continuous Plant for Radical Polymerization in Aqueous Solution. Macromolecular Reaction Engineering, 2016, 10, 339-353.	0.9	21
9	Rheo-Raman: A Promising Technique for In Situ Monitoring of Polymerization Reactions in Solution. Industrial & Engineering Chemistry Research, 2012, 51, 16151-16156.	1.8	19
10	In situ monitoring of acrylic acid polymerization in aqueous solution using rheo-Raman technique. Experimental investigation and theoretical modelling. Chemical Engineering Science, 2014, 106, 242-252.	1.9	15
11	Temperature dependence of Raman scattering and anharmonic properties in LiNbO $$_3$$ 3. Applied Physics A: Materials Science and Processing, 2014, 117, 1147-1152.	1.1	14
12	Inâ€situ Raman monitoring of the poly(vinylidene fluoride) crystalline structure during a meltâ€spinning process. Journal of Raman Spectroscopy, 2021, 52, 1073-1079.	1.2	13
13	Validation of a Rapid Thermal Processing model in steady-state. Microelectronic Engineering, 2008, 85, 2282-2289.	1.1	12
14	Complementarities of high energy WAXS and Raman spectroscopy measurements to study the crystalline phase orientation in polypropylene blends during tensile test. Polymer, 2015, 80, 27-37.	1.8	12
15	Application of Raman Spectroscopy to Characterization of Residence Time Distribution and Online Monitoring of a Pilotâ€scale Tubular Reactor for Acrylic Acid Solution Polymerization. Macromolecular Reaction Engineering, 2016, 10, 406-414.	0.9	12
16	Contribution of Raman Spectroscopy to In Situ Monitoring of a Highâ€Impact Polystyrene Process. Chemical Engineering and Technology, 2014, 37, 275-282.	0.9	11
17	In situ conversion monitoring of styrene emulsion polymerization by deconvolution of a single reference band near 1,000 cm^{â^'1}. Journal of Raman Spectroscopy, 2019, 50, 1938-1948.	1.2	11
18	Thermal behavior of high-frequency optical phonons in tetragonal BaTiO3 single crystal. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	10

#	Article	IF	Citations
19	Raman frequency shift induced by photorefractive effect on Feâ€“doped lithium niobate. Journal of Applied Physics, 2013, 114, 163506.	1.1	8
20	Raman spectroscopy and chemometrics for quantitative analysis of complex flows in an industrial transesterification process. Journal of Raman Spectroscopy, 2014, 45, 941-946.	1.2	6
21	Zr doping on lithium niobate crystals: Raman spectroscopy and chemometrics. Journal of Applied Physics, 2017, 121, .	1.1	6
22	Peculiar reduction of graphene oxide into graphene after diffusion in exponentially growing polyelectrolyte multilayers. Journal of Colloid and Interface Science, 2012, 377, 489-496.	5.0	5
23	On the exploitation of optical signal from Raman spectroscopy for in-situ conversion monitoring of emulsion polymerization. AIP Conference Proceedings, 2017, , .	0.3	3
24	Coupling Raman spectroscopy and drop tensiometry for in situ monitoring of radical polymerization in a single monomer droplet. Journal of Raman Spectroscopy, 2018, 49, 2046-2049.	1.2	3
25	Data Mining of Polymer Phase Transitions upon Temperature Changes by Small and Wide-Angle X-ray Scattering Combined with Raman Spectroscopy. Polymers, 2021, 13, 4203.	2.0	3
26	<title>Novel real-time monitoring technique of the all-optical poling process</title>. , 2002, , .		2
27	Time evolution of Symmetry-forbidden Raman lines activated by photorefractivity. Scientific Reports, 2019, 9, 13408.	1.6	1
28	In-situ microstructural measurements. , 2022, , 73-121.		1
29	Quantum noise in pure third-order fiber parametric amplifiers. , 2008, , .		0
30	Photorefractive Lithium Niobate crystals: light polarisation rotation highlighted by transmission Raman spectroscopy. Journal of Physics: Conference Series, 2017, 867, 012035.	0.3	0