

# Joel C Rubim

## List of Publications by Year in descending order

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71  
papers

3,466  
citations

159358

30  
h-index

138251

58  
g-index

72  
all docs

72  
docs citations

72  
times ranked

4286  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bio-based Hybrid Magnetic Latex Particles Containing Encapsulated $\text{Fe}_2\text{O}_3$ by Miniemulsion Copolymerization of Soybean Oil-acrylated Methyl Ester and Styrene. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800449.	1.7	1
2	The adsorption of methamphetamine on Ag nanoparticles dispersed in agarose gel – Detection of methamphetamine in fingerprints by SERS. <i>Vibrational Spectroscopy</i> , 2018, 98, 152-157.	1.2	17
3	Bio-based copolymers obtained through miniemulsion copolymerization of methyl esters of acrylated fatty acids and styrene. <i>Journal of Polymer Science Part A</i> , 2017, 55, 1422-1432.	2.5	9
4	The electrochemical reduction of $\text{CO}_2$ on a copper electrode in 1-n-butyl-3-methylimidazolium tetrafluoroborate ( $\text{BMI.BF}_4$ ) monitored by surface-enhanced Raman scattering (SERS). <i>Journal of Raman Spectroscopy</i> , 2016, 47, 674-680.	1.2	31
5	Surface-enhanced Raman spectroscopy of molecules adsorbed on silver nanoparticles dispersed in agarose gel and their adsorption isotherms. <i>Vibrational Spectroscopy</i> , 2016, 86, 290-301.	1.2	8
6	Synthesis and characterization of a magnetic bio-nanocomposite based on magnetic nanoparticles modified by acrylated fatty acids derived from castor oil. <i>European Polymer Journal</i> , 2015, 71, 152-163.	2.6	16
7	Exploratory Analysis of the Distribution of Lignin and Cellulose in Woods by Raman Imaging and Chemometrics. <i>Journal of the Brazilian Chemical Society</i> , 2015, , .	0.6	5
8	Cadmium and Tin Magnetic Nanocatalysts Useful for Biodiesel Production. <i>Journal of the Brazilian Chemical Society</i> , 2014, , .	0.6	7
9	Fabrication of glycine-functionalized maghemite nanoparticles for magnetic removal of copper from wastewater. <i>Journal of Hazardous Materials</i> , 2014, 264, 153-160.	6.5	90
10	Magnetic Ionic Liquids Produced by the Dispersion of Magnetic Nanoparticles in 1-n-Butyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide ( $\text{BMI.NTf}_2$ ). <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 5458-5465.	4.0	27
11	Evaluation of the stability during storage of a diesel-like fuel obtained by the pyrolysis of soybean oil. <i>Biomass and Bioenergy</i> , 2012, 37, 42-48.	2.9	7
12	Ionic liquids as recycling solvents for the synthesis of magnetic nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13558.	1.3	28
13	Catalytic Aminolysis (Amide Formation) from Esters and Carboxylic Acids: Mechanism, Enhanced Ionic Liquid Effect, and its Origin. <i>ChemCatChem</i> , 2011, 3, 1911-1920.	1.8	28
14	The use of Differential Scanning Calorimetry (DSC) to characterize phase diagrams of ionic mixtures of 1-n-butyl-3-methylimidazolium chloride and niobium chloride or zinc chloride. <i>Thermochimica Acta</i> , 2010, 502, 20-23.	1.2	20
15	Surface-enhanced Raman scattering (SERS) on copper electrodes in 1-n-butyl-3-methylimidazolium tetrafluoroborate ( $\text{BMI.BF}_4$ ): The adsorption of benzotriazole (BTAH). <i>Vibrational Spectroscopy</i> , 2010, 54, 103-106.	1.2	24
16	Synthesis, characterization and use of $\text{Nb}_2\text{O}_5$ based catalysts in producing biofuels by transesterification, esterification and pyrolysis. <i>Journal of the Brazilian Chemical Society</i> , 2009, 20, 954-966.	0.6	60
17	Studying the Influence of Alumina Catalysts Doped with Tin and Zinc Oxides in the Soybean Oil Pyrolysis Reaction. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2009, 86, 167.	0.8	27
18	Characteristics and composition of <i>Jatropha gossypifolia</i> and <i>Jatropha curcas</i> L. oils and application for biodiesel production. <i>Biomass and Bioenergy</i> , 2009, 33, 449-453.	2.9	163

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19	Surface-enhanced Raman scattering (SERS) of a copper electrode in 1-n-butyl-3-methylimidazolium tetrafluoroborate ionic liquid. <i>Electrochemistry Communications</i> , 2009, 11, 1846-1848.	2.3	29
20	Magnetic Fluids Based on $\text{Fe}_2\text{O}_3$ and $\text{CoFe}_2\text{O}_4$ Nanoparticles Dispersed in Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2009, 113, 8566-8572.	1.5	72
21	Structural Investigation of $\text{MFe}_2\text{O}_4$ (M = Fe, Co) Magnetic Fluids. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7684-7691.	1.5	199
22	Synthesis and Characterization of Magnetic Composites Based on Cis-Polyisoprene and $\text{CoFe}_2\text{O}_4$ Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 3617-3621.	0.9	4
23	Raman spectroscopy of ionic liquids derived from 1-n-butyl-3-methylimidazolium chloride and niobium chloride or zinc chloride mixtures. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 1388-1395.	1.2	41
24	Surface-Enhanced Vibrational Spectroscopy of Tetrafluoroborate 1-n-Butyl-3-methylimidazolium (BMIBF <sub>4</sub> ) Ionic Liquid on Silver Surfaces. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19670-19675.	1.5	51
25	The observation of high order overtones and combinations in the SERRS spectra of a perylene dye spin coated onto silver island films. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5412.	1.3	6
26	Determination of Ethanol Fuel Adulteration by Methanol Using Partial Least-Squares Models Based on Fourier Transform Techniques. <i>Energy &amp; Fuels</i> , 2008, 22, 2767-2770.	2.5	41
27	Organo-niobate Ionic Liquids: Synthesis, Characterization and Application as Acid Catalyst in Pechmann Reactions. <i>International Journal of Molecular Sciences</i> , 2007, 8, 392-398.	1.8	12
28	Adulteration of diesel/biodiesel blends by vegetable oil as determined by Fourier transform (FT) near infrared spectrometry and FT-Raman spectroscopy. <i>Analytica Chimica Acta</i> , 2007, 587, 194-199.	2.6	108
29	Disclosure of the imidazolium cation coordination and stabilization mode in ionic liquid stabilized gold(0) nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2007, 316, 189-195.	5.0	156
30	Surface-enhanced Raman spectra of magnetic nanoparticles adsorbed on a silver electrode. <i>Journal of Electroanalytical Chemistry</i> , 2007, 603, 27-34.	1.9	41
31	Surface-Enhanced Raman Scattering at the Silver Electrode/Ionic Liquid (BMIPF <sub>6</sub> ) Interface. <i>Journal of Physical Chemistry B</i> , 2006, 110, 20379-20385.	1.2	105
32	Determination of methyl ester contents in biodiesel blends by FTIR-ATR and FTNIR spectroscopies. <i>Talanta</i> , 2006, 69, 1278-1284.	2.9	132
33	New heterogeneous metal-oxides based catalyst for vegetable oil trans-esterification. <i>Journal of the Brazilian Chemical Society</i> , 2006, 17, 1291.	0.6	86
34	A comparative study of diesel analysis by FTIR, FTNIR and FT-Raman spectroscopy using PLS and artificial neural network analysis. <i>Analytica Chimica Acta</i> , 2005, 547, 188-196.	2.6	78
35	The use of smoke acid as an alternative coagulating agent for natural rubber sheets? production. <i>Bioresource Technology</i> , 2005, 96, 605-609.	4.8	12
36	Analysis of impurities in crude and highly-purified terephthalic acid by capillary electrophoresis. <i>Journal of the Brazilian Chemical Society</i> , 2004, 15, 400-406.	0.6	11

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37	Photoluminescence quenching effect on porous silicon films for gas sensors application. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2004, 60, 1065-1070.	2.0	47
38	A spectrophotometric study on the effect of ultraviolet irradiation of four tropical hardwoods. <i>Bioresource Technology</i> , 2004, 93, 37-42.	4.8	72
39	Enhancement of the Raman phonon spectra of porous silicon films by H <sup>+</sup> ion implantation. <i>Vibrational Spectroscopy</i> , 2004, 36, 135-140.	1.2	2
40	Diesel-like fuel obtained by pyrolysis of vegetable oils. <i>Journal of Analytical and Applied Pyrolysis</i> , 2004, 71, 987-996.	2.6	280
41	Immobilization of 5-amino-1,3,4-thiadiazole-thiol onto silica gel surface by heterogeneous and homogeneous routes. <i>Journal of Non-Crystalline Solids</i> , 2004, 333, 61-67.	1.5	52
42	A escolha da faixa espectral no uso combinado de métodos espectroscópicos e químicos. <i>Química Nova</i> , 2004, 27, 218-225.	0.3	14
43	New metal catalysts for soybean oil transesterification. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2003, 80, 601-604.	0.8	88
44	Determination of ethanol in fuel ethanol and beverages by Fourier transform (FT)-near infrared and FT-Raman spectrometries. <i>Analytica Chimica Acta</i> , 2003, 493, 219-231.	2.6	133
45	Surface-Enhanced Resonance Raman (SERR) Spectra of Methylene Blue Adsorbed on a Silver Electrode. <i>Langmuir</i> , 2003, 19, 4291-4294.	1.6	87
46	Raman Spectroscopic Investigation of Maghemite Ferrofluids Modified by the Adsorption of Zinc Tetrasulfonated Phthalocyanine. <i>Langmuir</i> , 2002, 18, 5511-5515.	1.6	13
47	Electrochemical and spectroelectrochemical (SERS) studies of the reduction of methylene blue on a silver electrode. <i>Journal of Electroanalytical Chemistry</i> , 2002, 527, 103-111.	1.9	94
48	Raman spectroscopy as a powerful technique in the characterization of ferrofluids. <i>Brazilian Journal of Physics</i> , 2001, 31, 402-408.	0.7	31
49	Changes in the porous silicon structure induced by laser radiation. <i>Journal of Raman Spectroscopy</i> , 2001, 32, 151-157.	1.2	12
50	Use of Raman micro-spectroscopy in the characterization of M <sub>1</sub> Fe <sub>2</sub> O <sub>4</sub> (M = Fe, Zn) electric double layer ferrofluids. <i>Journal of Raman Spectroscopy</i> , 2000, 31, 185-191.	1.2	107
51	Effect of sodium dodecylsulfate on copper corrosion in sulfuric acid media in the absence and presence of benzotriazole. <i>Journal of Electroanalytical Chemistry</i> , 1999, 472, 112-119.	1.9	221
52	The effects of solvent and electrolyte in the surface enhanced Raman spectrum of iron(II)bis(1,10) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 <i>Molecular and Biomolecular Spectroscopy</i> , 1999, 55, 2411-2421.	2.0	19
53	Polarization effects on the Raman and photoluminescence spectra of porous silicon layers. <i>Journal of Raman Spectroscopy</i> , 1999, 30, 29-36.	1.2	8
54	Contribution of the Charge Transfer Mechanism to the Surface-Enhanced Raman Scattering of the		

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55	Contribution of the Herzberg-Teller Mechanism to the Surface-Enhanced Raman Scattering of Iron Phthalocyanine Adsorbed on a Silver Electrode. <i>Langmuir</i> , 1998, 14, 4162-4168.	1.6	33
56	Surface-Enhanced Raman Spectroscopy on Electrode Surfaces as a Tool to Characterize LUMOs of Inorganic Complexes with Two Different Ligands. The Case of the Ion Complex $[\text{Ru}(\text{bipy})_2\text{viol}]^+$ . <i>Journal of Raman Spectroscopy</i> , 1997, 28, 235-241.	1.2	12
57	Surface Enhanced Vibrational Spectroscopy of 1,2-Bis(4-Pyridyl) Ethane. <i>Journal of the Brazilian Chemical Society</i> , 1996, 7, 461-469.	0.6	4
58	Contribution of Resonance Raman Scattering to the Surface-Enhanced Raman Effect on Electrode Surfaces. A Description Using the Time Dependent Formalism. <i>The Journal of Physical Chemistry</i> , 1995, 99, 15765-15774.	2.9	54
59	Surface-Enhanced Raman Spectroscopic Study of the Adsorption and Reduction of $[\text{M}(\text{bipy})_3]^{2+}$ Complexes (M = Co, Ni) on a Silver Electrode. <i>The Journal of Physical Chemistry</i> , 1995, 99, 13217-13223.	2.9	14
60	Effect of molecular oxygen on the surface-enhanced Raman intensity of adsorbed molecules on silver, copper and gold electrodes. <i>Vibrational Spectroscopy</i> , 1994, 7, 175-183.	1.2	10
61	A new spectroelectrochemical cell for flow injection analysis and its application to the determination of Fe(II) down to the femtomol level by surface-enhanced resonance Raman scattering (SERRS). <i>Journal of Electroanalytical Chemistry</i> , 1994, 371, 37-42.	1.9	25
62	Surface-Enhanced Raman Scattering and Atomic Force Microscopy of Brass Electrodes in Sulfuric Acid Solution Containing Benzotriazole and Chloride Ion. <i>Applied Spectroscopy</i> , 1993, 47, 80-84.	1.2	8
63	In Situ Raman and Reflectance Spectra of Iron Electrodes in Borate Buffer Solution Containing 2,2'-Bipyridine. <i>Journal of the Electrochemical Society</i> , 1993, 140, 1601-1606.	1.3	19
64	Dioxygen NIR FT-Emission ( $11\ \mu\text{m}$ ) and Raman Spectra of 1,4-Dimethylnaphthalene Endoperoxide: A Source of Singlet Molecular Oxygen. <i>Applied Spectroscopy</i> , 1992, 46, 236-239.	1.2	22
65	Surface enhanced Raman scattering (SERS) from benzotriazole adsorbed on brass electrodes. <i>Chemical Physics Letters</i> , 1990, 167, 209-214.	1.2	22
66	Enhanced Raman scattering from passive films on silver-coated iron electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989, 258, 327-344.	0.3	74
67	In situ spectroelectrochemical study of the passivation of iron in alkaline solutions. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1989, 85, 4247.	1.0	10
68	Spectroelectrochemical study of the corrosion of a copper electrode in deaerated 1.0 M HCl solutions containing Fe(III). <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1987, 220, 259-268.	0.3	31
69	Surface-enhanced Raman scattering (SERS) on silver electrodes as a technical tool in the study of the electrochemical reduction of cyanopyridines and in quantitative analysis. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1987, 220, 339-350.	0.3	34
70	Cyclic-fluorovoltammetry as a technical tool in the study of passivating films generated on electrode surfaces. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1985, 190, 55-63.	0.3	20
71	Surface-enhanced Raman scattering (SERS) and fluorescence spectra from mixed copper(I)/pyridine/iodide complexes on a copper electrode. <i>Chemical Physics Letters</i> , 1984, 111, 117-122.	1.2	23