

# 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	Diesel-like fuel obtained by pyrolysis of vegetable oils. <i>Journal of Analytical and Applied Pyrolysis</i> , 2004, 71, 987-996.	2.6	280
2	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
3	Structural Investigation of $MFe_2O_4$ (M = Fe, Co) Magnetic Fluids. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7684-7691.	1.5	199
4	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
5	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
6	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
7	Determination of methyl ester contents in biodiesel blends by FTIR-ATR and FTNIR spectroscopies. <i>Talanta</i> , 2006, 69, 1278-1284.	2.9	132
8	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
9	Use of Raman micro-spectroscopy in the characterization of $MIIFe_2O_4$ (M = Fe, Zn) electric double layer ferrofluids. <i>Journal of Raman Spectroscopy</i> , 2000, 31, 185-191.	1.2	107
10	Surface-Enhanced Raman Scattering at the Silver Electrode/Ionic Liquid (BMIPF6) Interface. <i>Journal of Physical Chemistry B</i> , 2006, 110, 20379-20385.	1.2	105
11	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
12	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
13	New metal catalysts for soybean oil transesterification. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2003, 80, 601-604.	0.8	88
14	Surface-Enhanced Resonance Raman (SERR) Spectra of Methylene Blue Adsorbed on a Silver Electrode. <i>Langmuir</i> , 2003, 19, 4291-4294.	1.6	87
15	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
16	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
17	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
18	A spectrophotometric study on the effect of ultraviolet irradiation of four tropical hardwoods. <i>Bioresource Technology</i> , 2004, 93, 37-42.	4.8	72

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19	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
20	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
21	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
22	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
23	Surface-Enhanced Vibrational Spectroscopy of Tetrafluoroborate 1-n-Butyl-3-methylimidazolium ( $\text{BMIBF}_4$ ) Ionic Liquid on Silver Surfaces. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19670-19675.	1.5	51
24	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
25	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
26	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
27	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
28	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
29	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
30	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
31	Raman spectroscopy as a powerful technique in the characterization of ferrofluids. <i>Brazilian Journal of Physics</i> , 2001, 31, 402-408.	0.7	31
32	The electrochemical reduction of $\text{CO}_2$ on a copper electrode in 1-n-butyl-3-methylimidazolium tetrafluoroborate ( $\text{BMIBF}_4$ ) monitored by surface-enhanced Raman scattering (SERS). <i>Journal of Raman Spectroscopy</i> , 2016, 47, 674-680.	1.2	31
33	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
34	Ionic liquids as recycling solvents for the synthesis of magnetic nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13558.	1.3	28
35	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
36	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

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37	Magnetic Ionic Liquids Produced by the Dispersion of Magnetic Nanoparticles in 1-n-Butyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide (BMI.NTf <sub>2</sub> ). ACS Applied Materials & Interfaces, 2012, 4, 5458-5465.	4.0	27
38	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). Journal of Electroanalytical Chemistry, 1994, 371, 37-42.	1.9	25
39	Surface-enhanced Raman scattering (SERS) on copper electrodes in 1-n-butyl-3-methylimidazolium tetrafluoroborate (BMI.BF <sub>4</sub> ): The adsorption of benzotriazole (BTAH). Vibrational Spectroscopy, 2010, 54, 103-106.	1.2	24
40	Surface-enhanced Raman scattering (SERS) and fluorescence spectra from mixed copper(I)/pyridine/iodide complexes on a copper electrode. Chemical Physics Letters, 1984, 111, 117-122.	1.2	23
41	Surface enhanced Raman scattering (SERS) from benzotriazole adsorbed on brass electrodes. Chemical Physics Letters, 1990, 167, 209-214.	1.2	22
42	Dioxygen NIR FT-Emission (1 <sup>1</sup> g → 3 <sup>1</sup> g) and Raman Spectra of 1,4-Dimethylnaphthalene Endoperoxide: A Source of Singlet Molecular Oxygen. Applied Spectroscopy, 1992, 46, 236-239.	1.2	22
43	Cyclic-fluorovoltammetry as a technical tool in the study of passivating films generated on electrode surfaces. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1985, 190, 55-63.	0.3	20
44	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. Thermochimica Acta, 2010, 502, 20-23.	1.2	20
45	In Situ Raman and Reflectance Spectra of Iron Electrodes in Borate Buffer Solution Containing 2,2'-bipyridine. Journal of the Electrochemical Society, 1993, 140, 1601-1606.	1.3	19
46	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 Molecular and Biomolecular Spectroscopy, 1999, 55, 2411-2421.	2.0	19
47	Contribution of the Charge Transfer Mechanism to the Surface-Enhanced Raman Scattering of the		

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55	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
56	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
57	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
58	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
59	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
60	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
61	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
62	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
63	Surface-enhanced Raman spectroscopy of molecules adsorbed on silver nanoparticles dispersed an agarose gel and their adsorption isotherms. <i>Vibrational Spectroscopy</i> , 2016, 86, 290-301.	1.2	8
64	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
65	Cadmium and Tin Magnetic Nanocatalysts Useful for Biodiesel Production. <i>Journal of the Brazilian Chemical Society</i> , 2014, , .	0.6	7
66	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
67	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
68	Synthesis and Characterization of Magnetic Composites Based on Cis-Polyisoprene and CoFe <sub>2</sub> O <sub>4</sub> Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 3617-3621.	0.9	4
69	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
70	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
71	Bio-Based Hybrid Magnetic Latex Particles Containing Encapsulated Fe <sub>2</sub> O <sub>3</sub> by Miniemulsion Copolymerization of Soybean Oil-Acrylated Methyl Ester and Styrene. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800449.	1.7	1