

Vladimir V Egorov

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

303
citations

933447

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h-index

888059

17
g-index

23
all docs

23
docs citations

23
times ranked

150
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Title is missing!. Physics-Uspexhi, 2007, 50, 985. | 2.2 | 52 |
| 2 | Theory of the J-band: From the Frenkel exciton to charge transfer. Physics Procedia, 2009, 2, 223-326. | 1.2 | 39 |
| 3 | Nature of the optical transition in polymethine dyes and J-aggregates. Journal of Chemical Physics, 2002, 116, 3090-3103. | 3.0 | 32 |
| 4 | On electrostatics of extended multiphonon transitions and nature of the J-band. Chemical Physics, 2001, 269, 251-283. | 1.9 | 28 |
| 5 | Electron-transfer approach to the nature of the optical lineshape for molecular J-aggregates. Chemical Physics Letters, 2001, 336, 284-291. | 2.6 | 24 |
| 6 | Nature of the optical band shapes in polymethine dyes and H-aggregates: dozy chaos and excitons. Comparison with dimers, H* and J-aggregates. Royal Society Open Science, 2017, 4, 160550. | 2.4 | 18 |
| 7 | Optical line shapes for polymethine dyes and their aggregates: Novel theory of quantum transitions and its correlation with experiment. Journal of Luminescence, 2011, 131, 543-547. | 3.1 | 14 |
| 8 | On electron transfer in Langmuir-Blodgett films. Thin Solid Films, 1996, 284-285, 932-935. | 1.8 | 13 |
| 9 | Optical lineshapes for dimers of polymethine dyes: dozy-chaos theory of quantum transitions and Frenkel exciton effect. RSC Advances, 2013, 3, 4598. | 3.6 | 12 |
| 10 | Nature of the narrow optical band in H* aggregates: Dozy-chaos exciton coupling. AIP Advances, 2014, 4, . | 1.3 | 10 |
| 11 | Electron transfer in condensed media: Failure of the Born-Oppenheimer and Franck-Condon approximations, collective phenomena and detailed balance relationship. Computational and Theoretical Chemistry, 1997, 398-399, 121-127. | 1.5 | 9 |
| 12 | Quantum-classical mechanics as an alternative to quantum mechanics in molecular and chemical physics. Heliyon, 2019, 5, e02579. | 3.2 | 8 |
| 13 | Dozy Chaos in Chemistry: Simplicity in Complexity. , 2013, , 219-224. | | 5 |
| 14 | Discovery of Dozy Chaos and Discovery of Quanta: Analogy Being in Science and Perhaps in Human Progress. , 2013, , 41-46. | | 5 |
| 15 | Quantum-classical mechanics: Luminescence spectra in polymethine dyes and J-aggregates. Nature of the small Stokes shift. Results in Physics, 2019, 13, 102252. | 4.1 | 5 |
| 16 | Tunnel luminescence: Failure of the Born-Oppenheimer and Franck-Condon approximations and collective phenomena. Journal of Luminescence, 1997, 72-74, 871-873. | 3.1 | 4 |
| 17 | The superexchange through virtual phonons in the dynamics of elementary electron transfer from excited electronic states of aggregated molecules. Journal of Luminescence, 1998, 76-77, 544-547. | 3.1 | 4 |
| 18 | Dynamic Symmetry in Dozy-Chaos Mechanics. Symmetry, 2020, 12, 1856. | 2.2 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Dozy-Chaos Mechanics for a Broad Audience. Challenges, 2020, 11, 16. | 1.7 | 4 |
| 20 | Quantum-Classical Mechanics: Nano-Resonance in Polymethine Dyes. Mathematics, 2022, 10, 1443. | 2.2 | 4 |
| 21 | Electron transfer in thin organic films: Failure of the Born-Oppenheimer and Franck-Condon approximations, and collective phenomena. Materials Science and Engineering C, 1998, 5, 321-326. | 7.3 | 3 |
| 22 | Quantum-classical mechanics: On the problem of a two-photon resonance band shape in polymethine dyes. Nano Structures Nano Objects, 2021, 25, 100650. | 3.5 | 3 |
| 23 | Quantum-Classical Electron as an Organizing Principle in Nature. International Journal of Science Technology and Society, 2020, 8, 93. | 0.1 | 3 |