

Research outputs

- Nanotubes from Transition Metal Dichalcogenides: Recent Progress in the Synthesis, Characterization and Electrooptical Properties**
Yadgarov, L. & Tenne, R., 2 Jul 2024, (Published Online) In: *Small*. 2400503.
Research output: Contribution to journal > Review article > peer-review
- To what Extent could Solid-State Chemistry and Nanotechnology Impact Sustainable Lifestyle of Human being on Earth in the Years to Come**
Tenne, R., 27 Jun 2024, (Published Online) In: *Israel Journal of Chemistry*. e202300069.
Research output: Contribution to journal > Article > peer-review
- Mechanism of WS₂ Nanotube Formation Revealed by in Situ/ex Situ Imaging**
Kundrát, V., Novák, L., Bukvišová, K., Zálešák, J., Kolíbalová, E., Rosentsveig, R., Sreedhara, M., Shalom, H., Yadgarov, L., Zak, A., Kolíbal, M. & Tenne, R., 14 May 2024, In: *ACS Nano*. 18, 19, p. 12284-12294 11 p.
Research output: Contribution to journal > Article > peer-review
- Nanotubes from Lanthanide-Based Misfit-Layered Compounds: Understanding the Growth, Thermodynamic, and Kinetic Stability Limits**
Sreedhara, M. B., Khadiev, A., Zheng, K., Hettler, S., Serra, M., Castelli, I. E., Arenal, R., Novikov, D. & Tenne, R., 30 Apr 2024, (Published Online) In: *Chemistry of Materials*. 36, 9, p. 4736-4749 14 p.
Research output: Contribution to journal > Article > peer-review
- Polyetherimide (PEI) nanocomposite with WS₂ nanotubes**
Babai, D., Pinkas, I., Naveh, D. & Tenne, R., 26 Apr 2024, (Published Online) In: *Nanoscale*. 16, 20, p. 9917-9934 18 p.
Research output: Contribution to journal > Article > peer-review
- Encapsulation of Uranium Oxide in Multiwall WS₂ Nanotubes**
Kundrat, V., Cohen, H., Kossoy, A., Bonani, W., Houben, L., Zalesak, J., Wu, B., Sofer, Z., Popa, K. & Tenne, R., 21 Dec 2023, (Published Online) In: *Small*. 20, 14, 2307684.
Research output: Contribution to journal > Article > peer-review
- Polyelectrolyte Complexation of Chitosan and WS₂ Nanotubes**
Magee, E., Xie, F., Farris, S., Dsouza, A., Constantinidou, C., Zak, A., Tenne, R. & McNally, T., 17 Dec 2023, (Published Online) In: *Advanced Materials Interfaces*. 11, 6, 15 p., 2300501.
Research output: Contribution to journal > Article > peer-review
- W₁₈O₄₉ Nanowhiskers Decorating SiO₂ Nanofibers: Lessons from In Situ SEM/TEM Growth to Large Scale Synthesis and Fundamental Structural Understanding**
Kundrat, V., Bukvisova, K., Novak, L., Prucha, L., Houben, L., Zalesak, J., Vukusic, A., Holec, D., Tenne, R. & Pinkas, J., 5 Dec 2023, (Published Online) In: *Crystal Growth and Design*. 24, 1, p. 378-390 13 p.
Research output: Contribution to journal > Article > peer-review
- Submillimeter-Long WS₂ Nanotubes: The Pathway to Inorganic Buckypaper**
Kundrát, V., Rosentsveig, R., Bukvišová, K., Citterberg, D., Kolíbal, M., Keren, S., Pinkas, I., Yaffe, O., Zak, A. & Tenne, R., 22 Nov 2023, In: *Nano Letters*. 23, 22, p. 10259-10266 8 p.
Research output: Contribution to journal > Article > peer-review
- Insights into the Growth of Ternary WSSe Nanotubes in an Atmospheric CVD Reactor**
Rosentsveig, R., Sreedhara, M. B., Sinha, S. S., Kaplan-Ashiri, I., Brontvein, O., Feldman, Y., Pinkas, I., Zheng, K., Castelli, I. E. & Tenne, R., 6 Nov 2023, In: *Inorganic Chemistry*. 62, 44, p. 18267-18279 13 p.
Research output: Contribution to journal > Article > peer-review
- 0D van der Waals interfacial ferroelectricity**
Niu, Y., Li, L., Qi, Z., Aung, H. H., Han, X., Tenne, R., Yao, Y., Zak, A. & Guo, Y., 31 Oct 2023, In: *Nature Communications*. 14, 1, 9 p., 5578.
Research output: Contribution to journal > Article > peer-review
- Tailoring the interface of WS₂ nanoparticles by photo-initiator for radiation curing and reinforcement of nano-structured acrylates**
Yosef Tal, N., Dodiuk, H., Amir, E., Brontvein, O., Tenne, R. & Kenig, S., Oct 2023, In: *Nano-Structures and Nano-Objects*. 36, 101034.
Research output: Contribution to journal > Article > peer-review
- The Mechanical Properties Relationship of Radiation-Cured Nanocomposites Based on Acrylates and Cationic Polymerized Epoxies and the Composition of Silane-Modified Tungsten Disulfide Nanoparticles**
Gercci, Y., Yosef-Tal, N., Bendikov, T., Dodiuk, H., Kenig, S. & Tenne, R., Jul 2023, In: *Polymers*. 15, 14, 16 p., 3061.
Research output: Contribution to journal > Article > peer-review
- Silane functionalization of WS₂ nanotubes for interaction with poly(lactic acid)**
Magee, E., Tang, F., Walker, M., Zak, A., Tenne, R. & McNally, T., 27 Apr 2023, In: *Nanoscale*. 15, 16, p. 7577-7590 14 p.
Research output: Contribution to journal > Article > peer-review

15. **Accelerated Photocuring of Acrylate Resins with WS₂ Nanoparticles**
Yosef Tal, N., Dodiuk, H., Farran, S., Carmieli, R., Pinkas, I., Kenig, S. & Tenne, R., 4 Mar 2023, (Published Online)
In: ACS Applied Polymer Materials. 6, 6, p. 3303-3315 13 p.
Research output: Contribution to journal > Article > peer-review
16. **Opportunities and challenges in integrating 2D materials with inorganic 1D and 0D layered nanostructures**
Chowdhury, T. & Tenne, R., 28 Jan 2023, In: Journal of Materials Research. 38, p. 267-280 14 p.
Research output: Contribution to journal > Review article > peer-review
17. **Synthesis of the Elusive Doublewall Nanotubes and Nanocones(Horns) of MoS₂ via Focused Solar Ablation**
Barbe, T., Rosentsveig, R., Brontvein, O., Sreedhara, M. B., Zheng, K., Bataille, F., Vossier, A., Flamant, G., Castelli, I., Gordon, J. & Tenne, R., 26 Jan 2023, In: Advanced Materials Interfaces. 10, 3, 2201930.
Research output: Contribution to journal > Article > peer-review
18. **Cationically Polymerized Epoxy and Radiation-Cured Acrylate Blend Nanocomposites Based on WS₂ Nanoparticles Part B: Mechanical and Physical Properties**
Gershoni, G., Dodiuk, H., Tenne, R. & Kenig, S., Jan 2023, In: Journal of Composites Science. 7, 1, 42.
Research output: Contribution to journal > Article > peer-review
19. **Cationic Polymerized Epoxy and Radiation Cured Acrylate Blend Nanocomposites Based on WS₂ Nanoparticles—Part A: Curing Processes and Kinetics**
Gershoni, G., Dodiuk, H., Tenne, R. & Kenig, S., Jan 2023, In: Journal of Composites Science. 7, 1, 41.
Research output: Contribution to journal > Article > peer-review
20. **Inorganic nanotubes: From WS₂ to 'misfit' compounds: from basic science to applications**
Tenne, R., 2023, *2023 IEEE Nanotechnology Materials and Devices Conference, NMDC 2023*. p. 636-637 2 p.
(2023 IEEE Nanotechnology Materials and Devices Conference, NMDC 2023).
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > peer-review
21. **Mesoscopic sliding ferroelectricity enabled photovoltaic random access memory for material-level artificial vision system**
Sun, Y., Xu, S., Xu, Z., Tian, J., Bai, M., Qi, Z., Niu, Y., Aung, H. H., Xiong, X., Han, J., Lu, C., Yin, J., Wang, S., Chen, Q., Tenne, R., Zak, A. & Guo, Y., Dec 2022, In: Nature Communications. 13, 1, 5391.
Research output: Contribution to journal > Article > peer-review
22. **Improved Electrochemical Performance of NTs-WS₂@C Nanocomposites for Lithium-Ion and Sodium-Ion Batteries**
Wei, S., Serra, M., Mourdikoudis, S., Zhou, H., Wu, B., Dekanovsky, L., Sturala, J., Luxa, J., Tenne, R., Zak, A. & Sofer, Z., 19 Oct 2022, In: ACS Applied Materials and Interfaces. 14, 41, p. 46386-46400 15 p.
Research output: Contribution to journal > Article > peer-review
23. **Nanotubes and fullerene-like nanoparticles from layered transition metal dichalcogenides: Why do they form and what is their significance?**
Sreedhara, M. B., Sinha, S. S., Zak, A., Yadgarov, L. & Tenne, R., 12 Aug 2022, In: Zeitschrift für anorganische und allgemeine Chemie (1950). 648, 15, e202200128.
Research output: Contribution to journal > Review article > peer-review
24. **Nanotubes from Ternary WS₂(1-x)Se_{2x} Alloys: Stoichiometry Modulated Tunable Optical Properties**
Sreedhara, M. B., Miroshnikov, Y., Zheng, K., Houben, L., Hettler, S., Arenal, R., Pinkas, I., Sinha, S. S., Castelli, I. E. & Tenne, R., 15 Jun 2022, In: Journal of the American Chemical Society. 144, 23, p. 10530-10542 13 p.
Research output: Contribution to journal > Article > peer-review
25. **WS₂ Nanotubes as a 1D Functional Filler for Melt Mixing with Poly(lactic acid):Implications for Composites Manufacture**
Magee, E., Tang, F., Ozdemir, E., Walker, M., Di Luccio, T., Kornfield, J. A., Zak, A., Tenne, R. & McNally, T., 27 May 2022, In: ACS Applied Nano Materials. 5, 5, p. 6385-6397 13 p.
Research output: Contribution to journal > Article > peer-review
26. **Size and Shape's Effects on the High-Pressure Behavior of WS₂ Nanomaterials**
Yue, L., Xu, D., Wei, Z., Zhao, T., Lin, T., Tenne, R., Zak, A., Li, Q. & Liu, B., 1 Apr 2022, In: Materials. 15, 8, 2838.
Research output: Contribution to journal > Article > peer-review
27. **Electrical Properties of LaS-TaS₂ Misfit Layered Compound Nanotubes**
Stolovas, D., Popovitz-Biro, R., Sinha, S. S., Bitton, O., Shahar, D., Tenne, R. & Joselevich, E., Mar 2022, In: Israel Journal of Chemistry. 62, 3-4, e202100072.
Research output: Contribution to journal > Article > peer-review
28. **Influence of Surface Relief on Orientation of Nematic Liquid Crystals: Polyimide Doped with WS₂ Nanotubes**
Kamanina, N., Toikka, A., Barnash, Y., Zak, A. & Tenne, R., Mar 2022, In: Crystals (Basel). 12, 3, 391.
Research output: Contribution to journal > Article > peer-review
29. **Nanotubes from the Misfit Layered Compound (SmS)_{1.19}TaS₂: Atomic Structure, Charge Transfer, and Electrical Properties**
Sreedhara, M. B., Bukvišová, K., Khadiev, A., Citterberg, D., Cohen, H., Balema, V., K. Pathak, A., Novikov, D., Leitus, G., Kaplan-Ashiri, I., Kofibal, M., Enyashin, A. N., Houben, L. & Tenne, R., 22 Feb 2022, In: Chemistry of Materials. 34, 4, p. 1838-1853 16 p.
Research output: Contribution to journal > Article > peer-review

30. **Chapter 19 - Radiation curing thermosets**
Gershoni, G., Gercci, Y., Dodiuk, H., Kenig, S. & Tenne, R., 2022, *Handbook of Thermoset Plastics*. p. 891-915 25 p.
Research output: Chapter in Book/Report/Conference proceeding > Chapter
31. **Optoelectronic properties of nanotubes based on tungsten disulfide**
Paukov, M. I., Goldt, A. E., Komandin, G. A., Syuy, A. V., Yakubovskiy, D. I., Polyakov, A. Y., Tenne, R., Zak, A., Novikov, S., Nasibulin, A. G., Arsenin, A. V., Volkov, V. & Burdanova, M. G., 2022, *2022 IEEE Photonics Society Summer Topicals Meeting Series, SUM 2022 - Proceedings*. 2 p. (2022 IEEE Photonics Society Summer Topicals Meeting Series, SUM 2022 - Proceedings).
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > peer-review
32. **Poly(L-lactic acid) reinforced with hydroxyapatite and tungsten disulfide nanotubes**
Golan, O., Shalom, H., Kaplan-Ashiri, I., Cohen, S. R., Feldman, Y., Pinkas, I., Ofek Almog, R., Zak, A. & Tenne, R., 1 Nov 2021, In: *Polymers*. 13, 21, 3851.
Research output: Contribution to journal > Article > peer-review
33. **Asymmetric misfit nanotubes: Chemical affinity outwits the entropy at high-temperature solid-state reactions**
Sreedhara, M. B., Hettler, S., Kaplan-Ashiri, I., Rechav, K., Feldman, Y., Enyashin, A., Houben, L., Arenal, R. & Tenne, R., 31 Aug 2021, In: *Proceedings of the National Academy of Sciences of the United States of America*. 118, 35, e2109945118.
Research output: Contribution to journal > Article > peer-review
34. **Probing the Chiral Domains and Excitonic States in Individual WS₂ Tubes by Second-Harmonic Generation**
Xia, H., Chen, X., Luo, S., Qin, F., Idelevich, A., Ghosh, S., Ideue, T., Iwasa, Y., Zak, A., Tenne, R., Chen, Z., Liu, W.-T. & Wu, S., 23 Jun 2021, In: *Nano Letters*. 21, 12, p. 4937-4943 7 p.
Research output: Contribution to journal > Article > peer-review
35. **WS₂ nanotubes dressed in gold and silver: Synthesis, optoelectronic properties, and NO₂ sensing**
Polyakov, A. Y., Yadgarov, L., Lebedev, V., Chumakov, R. G., Yashina, L. V., Rumyantseva, M. N., Tenne, R. & Goodilin, E. A., 22 Jun 2021, In: *AIP Conference Proceedings*. 1, 3 p.
Research output: Contribution to journal > Conference article > peer-review
36. **Synthesis and characterization of WS₂/SiO₂ microfibers**
Kundrat, V., Rosentsveig, R., Brontvein, O., Tenne, R. & Pinkas, J., Jun 2021, In: *Journal of Materials Science*. 56, 18, p. 10834-10846 13 p.
Research output: Contribution to journal > Article > peer-review
37. **Vibrational Properties and Charge Transfer in the Misfit-Layer Compound LaS-CrS₂**
Kampmann, F., Panchakarla, L. S., Gillen, R., Tenne, R. & Maultzsch, J., 15 Apr 2021, In: *Journal of Physical Chemistry C*. 125, 14, p. 8006-8013 8 p.
Research output: Contribution to journal > Article > peer-review
38. **Why do nanocrystals of 2D materials form nanotubes and why is that important?**
Sinha, S. S., Sreedhara, M. B. & Tenne, R., Apr 2021, In: *Nano Today*. 37, 4 p., 101060.
Research output: Contribution to journal > Comment/debate > peer-review
39. **MoS₂ and WS₂ Nanotubes: Synthesis, Structural Elucidation, and Optical Characterization**
Sinha, S. S., Yadgarov, L., Aliev, S. B., Feldman, Y., Pinkas, I., Chithaiah, P., Ghosh, S., Idelevich, A., Zak, A. & Tenne, R., 25 Mar 2021, In: *The Journal of Physical Chemistry C*. 125, 11, p. 6324-6340 17 p.
Research output: Contribution to journal > Article > peer-review
40. **Nanotubes from layered transition metal dichalcogenides**
Musfeldt, J., Iwasa, Y. & Tenne, R., 1 Aug 2020, In: *Physics Today*. 73, 8, p. 42-48 7 p.
Research output: Contribution to journal > Article > peer-review
41. **Strong, tough and bio-degradable polymer-based 3D-ink for fused filament fabrication (FFF) using WS₂ nanotubes**
Shalom, H., Kapishnikov, S., Brumfeld, V., Naveh, N., Tenne, R. & Lachman, N., 1 Jun 2020, In: *Scientific Reports*. 10, 1, 8 p., 8892.
Research output: Contribution to journal > Article > peer-review
42. **Quaternary Ln(x)La((1-x)S-TaS₂ nanotubes (Ln=Pr, Sm, Ho, and Yb) as a vehicle for improving the yield of misfit nanotubes**
Serra, M., Lajaunie, L., Sreedhara, M. B., Miroshnikov, Y., Pinkas, I., Calvino, J. J., Enyashin, A. N. & Tenne, R., Jun 2020, In: *Applied Materials Today*. 19, 11 p., 100581.
Research output: Contribution to journal > Article > peer-review
43. **Quaternary Misfit Compounds: A Concise Review**
Aliev, S. B. & Tenne, R., Jun 2020, In: *Crystals*. 10, 6, 21 p., 468.
Research output: Contribution to journal > Review article > peer-review
44. **Silica aerogels as hosting matrices for WS₂ nanotubes and their optical characterization**
Sedova, A., Visic, B., Vega-Mayoral, V., Vella, D., Gadermaier, C., Dodiuk, H., Kenig, S., Tenne, R., Gvishi, R. & Bar, G., Jun 2020, In: *Journal of Materials Science*. 55, 18, p. 7612-7623 12 p.
Research output: Contribution to journal > Article > peer-review

45. **Magnetic Field-Induced Through-Plane Alignment of the Proton Highway in a Proton Exchange Membrane**
Hyun, J., Doo, G., Yuk, S., Lee, D.-H., Lee, D. W., Choi, S., Kwen, J., Kang, H., Tenne, R., Lee, S. G. & Kim, H.-T., 26 May 2020, In: *ACS Applied Energy Materials*. 3, 5, p. 4619-4628 10 p.
Research output: Contribution to journal › Article › peer-review
46. **YS-TaS₂ and YxLa_{1-x}S-TaS₂ (0 ≤ x ≤ 1) Nanotubes: A Family of Misfit Layered Compounds**
Hettler, S., Sreedhara, M. B., Serra, M., Sinha, S. S., Popovitz-Biro, R., Pinkas, I., Enyashin, A. N., Tenne, R. & Arenal, R., 26 May 2020, In: *ACS Nano*. 14, 5, p. 5445-5458 14 p.
Research output: Contribution to journal › Article › peer-review
47. **Nanotubes from Two-Dimensional Materials in Contemporary Energy Research: Historical and perspective outlook**
Albu-Yaron, A., Sinha, S. S. & Tenne, R., 8 May 2020, In: *ACS Energy Letters*. 5, 5, p. 1498-1511 14 p.
Research output: Contribution to journal › Review article › peer-review
48. **Temporal Characteristics of Liquid Crystal Cell with WS₂ Nanoparticles: Mesophase Sensitization and Relief Features**
Kamanina, N., Zubtsova, Y. A., Toikka, A. S., Likhomanova, S., Zak, A. & Tenne, R., Apr 2020, In: *Zhidkie Kristally i Ikh Prakticheskoe Ispol'zovanie*. 20, 1, p. 34-40 7 p.
Research output: Contribution to journal › Article › peer-review
49. **Correlations between spectral, time and orientation parameters of liquid crystal cells with ws₂ nanoparticles**
Kamanina, N. V., Zubtcova, Y. A., Kuzhakov, P. V., Zak, A. & Tenne, R., Jan 2020, In: *Zhidkie Kristally i Ikh Prakticheskoe Ispol'zovanie*. 20, 3, p. 41-48 8 p.
Research output: Contribution to journal › Article › peer-review
50. **Size-Dependent Control of Exciton-Polariton Interactions in WS₂ Nanotubes**
Sinha, S. S., Zak, A., Rosentsveig, R., Pinkas, I., Tenne, R. & Yadgarov, L., Jan 2020, In: *Small*. 16, 4, 10 p., 1904390.
Research output: Contribution to journal › Article › peer-review
51. **Impact resistant hybrid composites reinforced with inorganic nanoparticles and nanotubes of WS₂**
Simic, D. M., Stojanovic, D. B., Dimic, M., Miskovic, K., Marjanovic, M., Burzic, Z., Uskokovic, P. S., Zak, A. & Tenne, R., 1 Nov 2019, In: *Composites Part B: Engineering*. 176, 9 p., 107222.
Research output: Contribution to journal › Article › peer-review
52. **Ultrafast nonequilibrium dynamics of strongly coupled resonances in the intrinsic cavity of W S₂ nanotubes**
Višić, B., Yadgarov, L., Pogna, E. A. A., Dal Conte, S., Vega-Mayoral, V., Vella, D., Tenne, R., Cerullo, G. & Gadermaier, C., Oct 2019, In: *Physical Review Research*. 1, 3, 033046.
Research output: Contribution to journal › Article › peer-review
53. **Au-MoS₂ Hybrids as Hydrogen Evolution Electrocatalysts**
Bar-Ziv, R., Ranjan, P., Lavie, A., Jain, A., Garai, S., Bar Hen, A., Popoyitz-Biro, R., Tenne, R., Arenal, R., Ramasubramaniam, A., Lajaunie, L. & Bar-Sadan, M., Aug 2019, In: *ACS Applied Energy Materials*. 2, 8, p. 6043-6050 15 p.
Research output: Contribution to journal › Article › peer-review
54. **Enhanced intrinsic photovoltaic effect in tungsten disulfide nanotubes**
Zhang, Y. J., Ideue, T., Onga, M., Qin, F., Suzuki, R., Zak, A., Tenne, R., Smet, J. H. & Iwasa, Y., 19 Jun 2019, (Published Online) In: *Nature*. 570, 7761, p. 349-353 5 p.
Research output: Contribution to journal › Article › peer-review
55. **Synthesis and characterization of quaternary La(Sr)S-TaS₂ misfit-layered nanotubes**
Serra, M., Anumol, E. A., Stolovas, D., Pinkas, I., Joselevich, E., Tenne, R., Enyashin, A. & Deepak, F. L., 24 May 2019, In: *Beilstein Journal of Nanotechnology*. 10, p. 1112-1124 13 p.
Research output: Contribution to journal › Article › peer-review
56. **An overview of the recent advances in inorganic nanotubes**
Serra, M., Arenal, R. & Tenne, R., 7 May 2019, In: *Nanoscale*. 11, 17, p. 8073-8090 18 p.
Research output: Contribution to journal › Review article › peer-review
57. **Nanocomposite of Poly(L-Lactic Acid) with Inorganic Nanotubes of WS₂**
Shalom, H., Sui, X., Elianov, O., Brumfeld, V., Rosentsveig, R., Pinkas, I., Feldman, Y., Kampf, N., Wagner, H. D., Lachman, N. & Tenne, R., Mar 2019, In: *Lubricants*. 7, 3, 21 p., 28.
Research output: Contribution to journal › Article › peer-review
58. **Nanoparticle coating of orthodontic appliances for friction reduction**
Redlich, M. & Tenne, R., 1 Jan 2019, *Nanobiomaterials in Clinical Dentistry*. Subramani, K. & Ahmed, W. (eds.). Elsevier, p. 309-331 23 p. (Micro and Nano Technologies).
Research output: Chapter in Book/Report/Conference proceeding › Chapter
59. **Emergent optoelectronic functionality in low dimensional noncentrosymmetric semiconductors**
Zhang, Y., Ideue, T., Onga, M., Qin, F., Suzuki, R., Zak, A., Tenne, R., Smet, J. H. & Iwasa, Y., 2019, In: *International Conference on Metamaterials, Photonic Crystals and Plasmonics*. p. 1123-1124 2 p.
Research output: Contribution to journal › Conference article › peer-review

60. **Nanotubes from the Misfit Compound Alloy LaS-NbxTa(1-x)S₂**
Stolovas, D., Serra, M., Popovitz-Biro, R., Pinkas, I., Houben, L., Calvino, J. J., Joselevich, E., Tenne, R., Arenal, R. & Lajaunie, L., 26 Dec 2018, In: *Chemistry of Materials*. 30, 24, p. 8829-8842 14 p.
Research output: Contribution to journal › Article › peer-review
61. **Deposition of metal coatings containing fullerene-like MoS₂ nanoparticles with reduced friction and wear**
Elianov, O., Garusi, S., Rosentsveig, R., Cohen, S. R., Feldman, Y., Pinkas, B., Bendikov, T., Kaplan-Ashiri, Moshkovich, A., Perfilyev, V., Rapoport, L., Moshonov, J., Tenne, R. & Shay, B., 15 Nov 2018, In: *Surface & Coatings Technology*. 353, p. 116-125 10 p.
Research output: Contribution to journal › Article › peer-review
62. **Diameter-Dependent Superconductivity in Individual WS₂ Nanotubes**
Qin, F., Ideue, T., Shi, W., Zhang, X.-X., Yoshida, M., Zak, A., Tenne, R., Kikitsu, T., Inoue, D., Hashizume, D. & Iwasa, Y., Nov 2018, In: *Nano Letters*. 18, 11, p. 6789-6794 6 p.
Research output: Contribution to journal › Article › peer-review
63. **Concentrated Sunlight for Materials Synthesis and Diagnostics**
Katz, E. A., Visoly-Fisher, I., Feuermann, D., Tenne, R. & Gordon, J. M., 11 Oct 2018, In: *Advanced Materials*. 30, 41, 10 p., 1800444.
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64. **Strong light-matter interaction in tungsten disulfide nanotubes**
Yadgarov, L., Visic, B., Abir, T., Tenne, R., Polyakov, A. Y., Levi, R., Dolgova, T. V., Zubuyuk, V. V., Fedyanin, A. A., Goodilin, E. A., Ellenbogen, T., Tenne, R. & Oron, D., 28 Aug 2018, In: *Physical Chemistry Chemical Physics*. 20, 32, p. 20812-20820 9 p.
Research output: Contribution to journal › Article › peer-review
65. **Synthesis and Characterization of Nanotubes from Misfit (LnS)(1+y)TaS₂ (Ln=Pr, Sm, Gd, Yb) Compounds**
Serra, M., Stolovas, D., Houben, L., Popovitz-Biro, R., Pinkas, I., Kampmann, F., Maultzsch, J., Joselevich, E. & Tenne, R., 6 Aug 2018, In: *Chemistry-A European Journal*. 24, 44, p. 11354-11363 10 p.
Research output: Contribution to journal › Article › peer-review
66. **Nanotubes from misfit layered compounds**
Serra, M. & Tenne, R., 3 Jul 2018, In: *Journal of Coordination Chemistry*. 71, 11-13, p. 1669-1678 10 p.
Research output: Contribution to journal › Review article › peer-review
67. **Metallic Nanocrystal Ripening on Inorganic Surfaces**
Ranjan, P., Kaplan-Ashiri, I., Popovitz-Biro, R., Cohen, S. R., Houben, L., Tenne, R., Lahav, M. & van der Boom, M. E., 30 Jun 2018, In: *ACS Omega*. 3, 6, p. 6533-6539 7 p.
Research output: Contribution to journal › Article › peer-review
68. **Optoelectronic response of a WS₂ tubular p-n junction**
Zhang, Y. J., Onga, M., Qin, F., Shi, W., Zak, A., Tenne, R., Smet, J. & Iwasa, Y., 10 Apr 2018, In: *2D Materials*. 5, 3, 035002.
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69. **How effectively do carbon nanotube inclusions contribute to the electromagnetic performance of a composite material? Estimation criteria from microwave and terahertz measurements**
Shuba, M. V., Yuko, D. I., Kuzhir, P. P., Maksimenko, S. A., Kanygin, M. A., Okotrub, A. V., Tenne, R. & Lambin, P., Apr 2018, In: *Carbon*. 129, p. 688-694 7 p.
Research output: Contribution to journal › Article › peer-review
70. **Decoration of Inorganic Nanostructures by Metallic Nanoparticles to Induce Fluorescence, Enhance Solubility, and Tune Band Gap**
Ranjan, P., Shankar, S., Popovitz-Biro, R., Cohen, S. R., Kaplan-Ashiri, I., Dadosh, T., Shimon, L. J. W., Visic, B., Tenne, R., Lahav, M. & van der Boom, M. E., 29 Mar 2018, In: *Journal of Physical Chemistry C*. 122, 12, p. 6748-6759 12 p.
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71. **Doping of Fullerene-Like MoS₂ Nanoparticles with Minute Amounts of Niobium**
Rosentsveig, R., Yadgarov, L., Feldman, Y., Shilstein, S., Popovitz-Biro, R., Visic, B., Sedova, A., Cohen, S. R., Li, Y., Frenkel, A. I. & Tenne, R., Mar 2018, In: *Particle and Particle Systems Characterization*. 35, 3, 10 p., 1700165.
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72. **Electrophoretic Deposition of Hydroxyapatite Film Containing Re-Doped MoS₂ Nanoparticles**
Shalom, H., Feldman, Y., Rosentsveig, R., Pinkas, I., Kaplan-Ashiri, I., Moshkovich, A., Perfilyev, V., Rapoport, L. & Tenne, R., Mar 2018, In: *International Journal of Molecular Sciences*. 19, 3, 14 p., 657.
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74. **Mechanical behavior enhancement of AZ31/WS₂ and AZ61/WS₂ magnesium metal matrix nanocomposites**
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75. **Quaternary Chalcogenide-Based Misfit Nanotubes LnS(Se)-TaS(Se)₂ (Ln = La, Ce, Nd, and Ho): Synthesis and Atomic Structural Studies**
Lajaunie, L., Radovsky, G., Tenne, R. & Arenal, R., 16 Jan 2018, In: *Inorganic Chemistry*. 57, 2, p. 747-753 7 p.
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77. **Nanocomposites based on tubular and onion nanostructures of molybdenum and tungsten disulfides: inorganic design, functional properties and applications**
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78. **Inorganic Nanotubes and Fullerene-like Nanoparticles at the Crossroads between Solid-State Chemistry and Nanotechnology**
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82. **Comparative study on the properties of poly(trimethylene terephthalate) -based nanocomposites containing multi-walled carbon (MWCNT) and tungsten disulfide (INT-WS₂) nanotubes**
Paszkiwicz, S., Szymczyk, A., Janowska, I., Jędrzejewski, R., Linares, A., Ezquerra, T. A., Wagner, H. D., Tenne, R. & Roslaniec, Z., Jun 2017, In: *Polymers for Advanced Technologies*. 28, 6, p. 645-657 13 p.
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156. **High lubricity of re-doped fullerene-like MoS₂ nanoparticles**
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158. **Metallic Films with Fullerene-Like WS₂ (MoS₂) Nanoparticles: Self-Lubricating Coatings with Potential Applications**
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163. **The mechanical and tribological properties of epoxy nanocomposites with WS₂ nanotubes**
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166. **Alleviating fatigue and failure of NiTi endodontic files by a coating containing inorganic fullerene-like WS₂ nanoparticles**
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170. **The use of functionalized nanoparticles as non-specific compatibilizers for polymer blends**
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172. **Towards medical applications of self-lubricating coatings with fullerene-like (IF) W₂ nanoparticles**
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175. **Fullerene-like nanostructures, their use and process for their production**
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216. **X-RAY PHOTOELECTRON SPECTROSCOPY AND TRIBOLOGY STUDIES OF ANNEALED FULLERENE-LIKE WS₂ NANOPARTICLES**
Kopnov, F., Tenne, R., Spaeth, B., Jaegermann, W., Cohen, H., Feldman, Y., Zak, A., Moshkovich, A. & Rapoport, L., 2008, *Functionalized Nanoscale Materials, Devices and Systems*. Vaseashta, A. & Mihailescu, I. N. (eds.). Dordrecht: Springer Science + Business Media, p. 51-59 9 p. (NATO Science for Peace and Security Series B: Physics and Biophysics).
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217. **ZnO nanowire and WS₂ nanotube electronics**
Unalan, H. E., Yang, Y., Zhang, Y., Hiralal, P., Kuo, D., Dalal, S., Butler, T., Cha, S. N., Jang, J. E., Chremmou, K., Lentaris, G., Wei, D., Rosentsveig, R., Suzuki, K., Matsumoto, H., Minagawa, M., Hayashi, Y., Chhowalla, M., Tanioka, A. & Milne, W. I. & 2 others, Tenne, R. & Amaratunga, G. A. J., 2008, In: *IEEE Transactions on Electron Devices*. 55, 11, p. 2988-3000 13 p.
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218. **Characterization of geoinspired and synthetic chrysotile nanotubes by atomic force microscopy and transmission electron microscopy**
Piperno, S., Kaplan-Ashiri, I., Cohen, S. R., Popovitz-Biro, R., Wagner, H. D., Tenne, R., Foresti, E., Lesci, I. G. & Roveri, N., 5 Nov 2007, In: *Advanced Functional Materials*. 17, 16, p. 3332-3338 7 p.
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219. **Fullerene-like (IF) Nb_xMO_{1-x}S₂ nanoparticles**
Deepak, F. L., Cohen, H., Cohen, S., Feldman, Y., Popovitz-Biro, R., Azulay, D., Millo, O. & Tenne, R., 17 Oct 2007, In: *Journal of the American Chemical Society*. 129, 41, p. 12549-12562 14 p.
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220. **Inorganic fullerenes and nanotubes: Wealth of materials and morphologies**
Bar-Sadan, M., Kaplan-Ashiri, I. & Tenne, R., Oct 2007, In: *European Physical Journal-Special Topics*. 149, 1, p. 71-101 31 p.
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221. **On the efficacy of IF-WS₂ nanoparticles as solid lubricant: The effect of the loading scheme**
Rapoport, L., Moshkovich, A., Perfiliev, V. & Tenne, R., Oct 2007, In: Tribology Letters. 28, 1, p. 81-87 7 p.
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223. **Bulk vs nanoscale WS₂: Finite size effects and solid-state lubrication**
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225. **Fabrication of self-lubricating cobalt coatings on metal surfaces**
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226. **Sedimentation of IF-WS₂ aggregates and a reproducibility of the tribological data**
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227. **Structure and stability of molybdenum sulfide fullerenes**
Enyashin, A. N., Gemming, S., Bar-Sadan, M., Popovitz-Biro, R., Hong, S. Y., Prior, Y., Tenne, R. & Seifert, G., 2007, In: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. 46, 4, p. 623-627 5 p.
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228. **Structure and stability of molybdenum sulfide fullerenes**
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230. **Synthesis of fullerene-like Cs₂O nanoparticles by concentrated sunlight**
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235. **MoS₂ fullerene-like nanoparticles and nanotubes using gas-phase reaction with MoCl₅**
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243. **On the mechanical behavior of WS₂ nanotubes under axial tension and compression**
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245. **Fullerene-like Cs₂O nanoparticles generated by concentrated sunlight**
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247. **Shock-absorbing and failure mechanisms of WS₂ and MoS₂ nanoparticles with fullerene-like structures under shock wave pressure**
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Livneh, T., Band, A. & Tenne, R., Aug 2002, In: Journal of Raman Spectroscopy. 33, 8, p. 675-676 2 p.
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295. **Inorganic nanoparticle impregnation of self lubricated materials**
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296. **Alkali metal intercalated fullerene-like MS₂ (M = W, Mo) nanoparticles and their properties**
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300. **Equilibrium structure of multilayer van der Waals films and nanotubes**
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301. **Load bearing capacity of bronze, iron and iron-nickel powder composites containing fullerene-like WS₂ nanoparticles**
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302. **The inverted p-diamond/n-CdTe heterojunction solar cell**
Von Huth, H. P., Butler, J., Jaegermann, W. & Tenne, R., Jan 2002, In: *Journal of the Electrochemical Society*. 149, 1, p. G55-G62
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303. **Mechanism of friction of fullerenes**
Rapoport, L., Leshchinsky, V., Lvovsky, M., Nepomnyashchy, O., Volovik, Y. & Tenne, R., 2002, In: *Industrial Lubrication and Tribology*. 54, 4, p. 171-176 6 p.
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304. **New approach for gas phase synthesis and growth mechanism of MoS₂ fullerene-like nanoparticles**
Zak, A., Feldman, Y., Alperovich, V., Rosentsveig, R. & Tenne, R., 2002, In: *Structural And Electronic Properties Of Molecular Nanostructures*. 633, p. 207-209 3 p.
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305. **Preparation and tribological properties of Ni-P electroless composite coating containing inorganic fullerene-like WS₂ nanomaterials**
Chen, W. X., Tu, J. P., Ma, X. C., Xu, Z. D., Chen, W. L., Wang, J. G., Cheng, D. H., Xia, J. B., Gan, H. Y., Jin, Y. X., Tenne, R. & Rosentsveig, R., 2002, In: *Acta Chimica Sinica*. 60, 9, p. 1722-1726 5 p.
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306. **Scanning tunneling microscopy study of WS₂ nanotubes**
Scheffer, L., Rosentsveig, R., Margolin, A., Popovitz-Biro, R., Seifert, G., Cohen, S. & Tenne, R., 2002, In: *Physical Chemistry Chemical Physics*. 4, 11, p. 2095-2098 4 p.
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307. **Synthesis and properties of alkali metal intercalated fullerene-like MS₂ (M=W,MO) nanoparticles**
Zak, A., Feldman, Y., Lyakhovitskaya, V., Leitun, G., Popovitz-Biro, R., Wachtel, E., Cohen, H., Reich, S. & Tenne, R., 2002, *AIP Conference Proceedings*. American Institute of Physics, Vol. 633. p. 67-70 4 p. (Structural And Electronic Properties Of Molecular Nanostructures).
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308. **Synthesis of NbS₂ nanoparticles with (nested) fullerene-like structure (IF)**
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310. **Diamond/CdTe: A new inverted heterojunction CdTe thin film solar cell**
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312. **The effect of substrate topography on the local electronic structure of WS₂ nanotubes**
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313. **Experimental evidence of surface-plasmon coupling in anisotropic hollow nanoparticles**
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314. **Friction and wear of bronze powder composites including fullerene-like WS₂ nanoparticles**
Rapoport, L., Lvovsky, M., Lapsker, I., Leshchinsky, W., Volovik, Y., Feldman, Y. & Tenne, R., Apr 2001, In: *Wear*. 249, 2-Jan, p. 150-157 8 p.
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315. **Slow Release of Fullerene-like WS₂ Nanoparticles from Fe-Ni Graphite Matrix: A Self-Lubricating Nanocomposite**
Rapoport, L., Lvovsky, M., Lapsker, I., Leshchinsky, V., Volovik, Y., Feldman, Y., Margolin, A., Rosentsveig, R. & Tenne, R., Mar 2001, In: *Nano Letters*. 1, 3, p. 137-140 4 p.
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316. **Preparation and characterization of CdTe nanoparticles in zirconia films prepared by the sol gel method**
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317. **Slow release of fullerene-like WS₂ nanoparticles as a superior solid lubrication mechanism in composite matrices**
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324. **In situ imaging of shearing contacts in the surface forces apparatus**
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325. **Morphology of Multiwall WS₂ Nanotubes**
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328. **Nanoparticles of CdCl₂ with closed cage structures**
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329. **New reactor for production of tungsten disulfide hollow onion-like (inorganic fullerene-like) nanoparticles**
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331. **Synthesis of bulk WS₂ nanotube phases**
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332. **Photoelectrochemical studies with inorganic cage structures of metal dichalcogenides**
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341. **Nanoparticles of Layered Compounds with Hollow Cage Structures (Inorganic Fullerene-Like Structures)**
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343. **Optical properties of MS₂ (M = Mo, W) inorganic fullerene-like and nanotube material optical absorption and resonance Raman measurements**
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344. **The tribological behavior of type II textured MX₂ (M = Mo, W; X = S, Se) films**
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349. **Near-field electron energy loss spectroscopy of nanoparticles**
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367. **Characterization of oriented thin films of WSe₂ grown by van der Waals rheotaxy**
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370. **Inorganic fullerenes from 2-D layered compounds**
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371. **Preparation of nested fullerenes and nanotubes of MoS₂**
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387. **Absorption tail of low resistivity $\text{CdSe}_x\text{Te}_{1-x}$: Comparison between absorption and quantum efficiency measurements**
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399. **SHALLOW DONOR STATE REMOVAL VIA PHOTOELECTROCHEMICAL ETCHING IN CD(SE, TE)**
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