

## Yoel Rephaeli: Select Publications

1. 'Relativistic Electrons in the Intracluster Space of Clusters of Galaxies: The hard X-Ray Spectra and Heating of the Gas', Y. Rephaeli 1979, *ApJ*, 227, 364
2. 'Flow Past a Massive Object and the Gravitational Drag', Y. Rephaeli, & E.E. Salpeter 1980, *ApJ*, 240, 20
3. 'On the Determination of the Degree of Cosmological Compton Distortions and the Temperature of the Cosmic Blackbody Radiation', Y. Rephaeli 1980, *ApJ*, 241, 858
4. 'Fluctuations in the Cosmic Blackbody Radiation Due to Gas in Galaxy Clusters', Y. Rephaeli 1981, *ApJ*, 245, 351
5. 'Magnetic Moments of Neutrinos: Particle and Astrophysical Considerations', S. Nussinov, & Y. Rephaeli, 1987, *Phys. Rev. D.*, 36, 2278
6. 'Magnetic Fields in Clusters of Galaxies', Y. Rephaeli, 1988, *Comments Ap.*, 12, 265
7. 'Infrared Emission by Dust in the Coma Cluster', E. Dwek, Y. Rephaeli, & J.C. Mather, 1990, *ApJ*, 350, 104
8. 'Energetic Proton Heating of Gas in the Core of the Perseus Cluster', Y. Rephaeli, & J. Silk 1995, *ApJ*, 442, 91
9. 'Compton X-ray Emission from NGC253', O. Goldshmidt, & Y. Rephaeli, 1995, *ApJ*, 444, 113
10. 'CMB Comptonization by Hot Intracluster Gas', Y. Rephaeli, 1995, *ApJ*, 445, 33
11. 'Comptonization of the Cosmic Microwave Background: The Sunyaev-Zeldovich Effect', Y. Rephaeli 1995, *Ann. Rev. Astron. Ap.*, 33, 541
12. 'RXTE Observations of the Coma Cluster', Y. Rephaeli, D. Gruber, & P. Blanco, 1999, *ApJ*, 511, L21
13. 'Quantitative Description of the Sunyaev-Zeldovich Effect: Analytic Approximations', Meir Shimon, & Y. Rephaeli, 2004, *New Astron.*, 9, 69
14. 'CMB Comptonization in Clusters: Spectral and Angular Power from Evolving Polytropic Gas', S. Sadeh & Y. Rephaeli, 2004, *New Astron.*, 9, 159
15. 'S-Z Cluster Counts as a Probe of Intra-Supercluster Gas', S. Sadeh, & Y. Rephaeli, 2005, *New Astron.*, 10, 560
16. 'CMB Polarization due to Scattering in Clusters', Meir Shimon, Yoel Rephaeli, Brian W. O'Shea, & Michael L. Norman, 2006, *MNRAS*, 368, 511
17. 'Impact of a Non-Gaussian Density Field on Sunyaev-Zeldovich Observables', S. Sadeh, Y. Rephaeli, & J. Silk, 2006, *MNRAS*, 368, 1583
18. 'Mass and Gas Profiles in A1689: Joint X-ray and Lensing Analysis', D. Lemze, R. Barkana, Tom Broadhurst, & Y. Rephaeli, 2008, *MNRAS*, 386, 1092
19. 'VHE emission from M82', M. Persic, Y. Rephaeli, & Y. Arieli, 2008, *A&A*, 486, 143
20. 'Nonthermal Phenomena in Clusters of Galaxies', Y. Rephaeli, J. Nevalainen, T. Ohashi, & A. Bykov, 2008, *Space Science Reviews*, 134, 71
21. 'A New Approach for Simulating Galaxy Cluster Properties', Y. Arieli, Y. Rephaeli, & M. Norman, 2008, *ApJ*, 683, L111
22. 'The probability distribution of cluster formation times and implied Einstein radii', 2008, S. Sadeh, & Y. Rephaeli, *MNRAS*, 388, 1759
23. 'Power Spectra of CMB Polarization by Scattering in Clusters', M. Shimon, Y. Rephaeli, S., Sadeh, & B. Keating, 2009, *MNRAS*, 399, 2088
24. 'The Largest Gravitational Lens: MACS J0717.5+3745 ( $z=0.546$ )', A. Zitrin, T. Broadhurst, Y. Rephaeli, & S. Sadeh, 2009, *ApJ*, 707, L102
25. 'High Energy Emission from the Starburst Galaxy NGC253', Y. Rephaeli, & Y. Arieli, & M. Persic, 2010, *MNRAS*, 401, 473